

# VALPARAISO UNIVERSITY BULLETIN

---

Sixty-Seventh Year

*Announcements for*  
*1929-1930*



Valparaiso, Indiana





# APPLICATION FOR ADMISSION

(For New Students Only)

## VALPARAISO UNIVERSITY

VALPARAISO, INDIANA

Fill out fully all that is requested, in your own handwriting, and forward at once to the Registrar, Valparaiso University, Valparaiso, Indiana. Students are advised to send preliminary fees by Postal Money Order, Bank Draft or Check. Do not send cash. Please make remittance payable to the Valparaiso University Association.

Date.....19....

1. Name in Full.....
2. Address .....  
Number and Street City State
3. Date of Birth.....Present Occupation.....
4. High School Preparation:
  - a. Name of High School.....
  - b. Address .....
  - c. Date of Graduation, if a graduate.....
  - d. Number of years in High School.....
5. Previous College Attendance.....
  - a. Name of College or University.....
  - b. Address .....
  - c. Course..... d. Rank (Underline one) Freshman, Sophomore, Junior, Senior.
6. Of what church or other religious organization, if any, are you a member? .....
7. What special recognition, if any, have you received for excellence in school work, such as honors, prizes or scholarships?.....  
.....
8. In what studies are you particularly interested?.....  
.....
9. When do you expect to enter?.....
10. The Matriculation Fee must accompany this application. Students are advised to send room deposit and dining hall reservation fees also. Please indicate hereon the fees you are sending.
  - a. Matriculation Fee (New Students Only) (\$5.00).....
  - b. Room Deposit (\$3.00).....Dining Hall Reservation (\$2.00).....

The room deposit and dining hall fees are refunded to applicants who are not accepted or who do not enroll. The Matriculation Fee is refunded only to those applicants who are not accepted.





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# VALPARAISO UNIVERSITY

## Approved by—

*Indiana State Board of Education as a Class "A" College and University for teacher training.*

## Member of—

*North Central Association of Colleges and Secondary Schools.  
American Association of Colleges of Pharmacy.*

—••❧❧❧❧❧❧••—

*American Association of Collegiate Registrars.*

—••❧❧❧❧❧❧••—

*Indiana Intercollegiate (Athletic) Conference.*



## UNIVERSITY CALENDAR

### 1929

Meeting of Student Advisory Committee, Wednesday, September 18.  
First semester begins Thursday, September 19.  
Registration of new students, September 19.  
Registration of old students, September 20.  
Recitations begin Monday, September 23.  
First convocation, Monday, September 23.  
First chapel exercise, Tuesday, September 24.  
Registration closes at 12:00 M., Saturday, October 5.  
Thanksgiving Recess, November 28, 29, 30, December 1.  
Christmas holidays begin Saturday, December 21.

### 1930

Christmas holidays end Sunday, January 5.  
Recitations resumed, Monday, January 6.  
First semester examinations, February 1, 3 to 8.  
First semester ends Saturday, February 8.  
Second semester begins Monday, February 10.  
Registration for second semester, Monday, February 10.  
Recitations begin Tuesday, February 11.  
Registration for second semester closes at 12:00 M., Saturday, February 22.  
Easter Recess, April 18, 19, 20, 21.  
Memorial Day, a holiday, Friday, May 30.  
Second semester examinations, June 7, 9 to 14.  
Second semester ends Saturday, June 14.  
Commencement Day, Sunday, June 15.

### SUMMER SESSION, 1929

Registration, June 17.  
First five-week session, June 17 to July 20.  
Second five-week session, July 22 to August 24.

### SUMMER SESSION, 1930

Registration, June 16.  
First five-week session, June 16 to July 19.  
Second five-week session, July 21 to August 23.

## 1929

JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	5	6	..	..	..	..	1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31	..	..	..	25	26	27	28	29	30	31	29	30	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	5	6	..	..	..	..	..	1	2	1	2	3	4	5	6	7
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
27	28	29	30	31	..	..	24	25	26	27	28	29	30	29	30	31	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

# 1930

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	1	2	3	4	..	..	..	..	..	1	..	..	..	..	..	..	..	1
5	6	7	8	9	10	11	2	3	4	5	6	7	8	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15	9	10	11	12	13	14	15
19	20	21	22	23	24	25	16	17	18	19	20	21	22	16	17	18	19	20	21	22
26	27	28	29	30	31	..	23	24	25	26	27	28	..	23	24	25	26	27	28	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	31	..	..	..	..	..

APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	1	2	3	4	5	..	..	..	1	2	3	..	1	2	3	4	5	6	7
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
27	28	29	30	..	..	..	25	26	27	28	29	30	31	29	30	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..



## **PART I**

**OFFICERS OF ADMINISTRATION AND INSTRUCTION**

## BOARD OF DIRECTORS\*

Harry A. Eberline, *President*

Ralph E. Richman, *Vice-President*

Frank J. Lankenau, *Honorary Vice-President*

HARRY A. EBERLINE.....	Detroit, Michigan
WILLIAM F. BOEGER.....	Chicago, Illinois
HERBERT H. HACKSTEDDE.....	Cincinnati, Ohio
PETER W. MEYN.....	Hammond, Indiana
GEORGE F. NOLDE.....	Richmond, Virginia
LOUIS J. SIECK.....	St. Louis, Missouri
HENRY A. DAHLEN.....	New York City
OSCAR C. KREINHEDER.....	Detroit, Michigan
HENRY J. NEILS.....	Minneapolis, Minnesota
RALPH E. RICHMAN.....	Cincinnati, Ohio
HENRY F. ROHRMAN.....	Chicago, Illinois
FRED WEHRENBURG.....	Fort Wayne, Indiana
WILLIAM C. DICKMEYER.....	Fort Wayne, Indiana
RUDOLF ECKERT .....	Flint, Michigan
EDWARD W. JAEGER.....	Chicago, Illinois
LUDWIG H. LETZ.....	Crown Point, Indiana
MARTIN H. LUECKE.....	Fort Wayne, Indiana
PAUL F. MILLER.....	Fort Wayne, Indiana

Paul F. Miller, *Secretary*

William C. Dickmeyer, *Treasurer*

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\*1928-29.



STANDING COMMITTEES OF THE BOARD

EXECUTIVE COMMITTEE

COMMITTEE ON INSTRUCTION

COMMITTEE ON FINANCE AND INVESTMENT

COMMITTEE ON BUDGET

COMMITTEE ON BUILDINGS AND GROUNDS

COMMITTEE ON AUDIT

## ADMINISTRATIVE ORGANIZATION

### I.

#### THE COLLEGE OF LIBERAL ARTS

Department of Biology.  
Department of Business Management.  
Department of Chemistry.  
Department of Education and Psychology.  
Department of Engineering.  
Department of English Language and Literature.  
Department of Fine Arts.  
Department of Foreign Languages and Literatures.  
Department of Geology.  
Department of Health and Physical Education.  
Department of Home Economics.  
Department of Mathematics and Physics.  
Department of Religion and Philosophy.  
Department of Social Science.

### II.

#### THE COLLEGE OF PHARMACY

### III.

#### THE SCHOOL OF LAW

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#### ADMINISTRATIVE OFFICERS

(1928-1929)

William H. T. Dau, D.D.....	President
Frederick W. Kroencke, Ph.D.....	Acting Dean of the University and of the College of Liberal Arts, Director of the Summer Session
Harry V. Fuller, Ph.D.....	Acting Dean of the College of Pharmacy
John W. Morland, A.M., J. D.....	Acting Dean of the School of Law
Henry H. Kumnick, A.B., LL.B.....	Dean of Students
John C. Baur.....	Business Manager
Albert F. Scribner, B.C.S.....	Registrar
Katharine Ertz Bowden, B.S.....	Librarian
Gerald D. Stoner, M.D.....	University Physician
Catharine Corboy .....	Alumni Secretary



## GENERAL FACULTY AND OFFICERS OF INSTRUCTION

(1928-1929)

William H. T. Dau, D.D., *President.*

Concordia College, Ft. Wayne, diploma, 1883; Concordia Theological Seminary, St. Louis, diploma, 1886; Concordia College, Adelaide, South Australia, D.D., hon., 1923.

### PROFESSORS

Harry Edmund Bilger, M.S., *Professor of Civil Engineering.*

Bucknell University, Ph.B., 1903; University of Missouri, B.S. in C.E., 1907; Bucknell University, M. S., 1915; *ibid.*, C.E., 1923; University of Michigan, eight weeks Summer Session, 1926; University of Wisconsin, six weeks Summer Session, 1928.

Milo Jesse Bowman, LL.D., *Professor of Law.\**

Hanover College, Indiana, A.B., 1896; *ibid.*, A.M., 1898; Indianapolis College of Law, LL.B., 1902; Hanover College, LL.D., 1922.

Edmund Walter Chaffee, Mus. D., *Professor of Music.*

Stern's Conservatory, Berlin, student, 1887-90; *ibid.*, Assistant in Music, 1889-90; piano under Liebling and Sherwood, voice under Root, Burritt, and Gottschalk, organ under Gleason and Middleschulte, composition under Koelling, 1890-95; Valparaiso University, Mus. D., hon., 1920.

Harry Victor Fuller, Ph.D., *Professor of Chemistry.*

University of Minnesota, student, 1903; Polytechnique Federal of Basel, Switzerland, student, 1909-12; University of Zurich, student, 1910-12; University of Basel, A.M., 1912; *ibid.*, Ph.D., 1912.

Louis Frederick Heimlich, Ph.D., *Professor of Botany.†*

Purdue University, B.S., 1914; *ibid.*, M.S., 1916; University of Wisconsin, Honorary Fellow in Botany, 1924-25; *ibid.*, Ph.D., 1926.

Frederick William Kroencke, Ph.D., *Professor of Philosophy and Psychology.*

Concordia Theological Seminary, St. Louis, Missouri, diploma, 1895; University of Cincinnati, A.B., 1924; Taft Fellow, 1926-27; *ibid.*, Ph.D., 1927.

Edna M. Robinson, Ph.D., *Professor of English Language and Literature.*

University of Chicago, A.B., 1909; *ibid.*, A.M., 1915; Johns Hopkins University, Ph.D., 1917.

### ASSOCIATE PROFESSORS

Carl D. A. F. Abbetmeyer, Ph.D., *Associate Professor of English Language and Literature.*

Northwestern College, Watertown, Wisconsin, A.B., 1888; Milwaukee Theological Seminary, diploma, 1890; University of Minnesota, Ph.D., 1900; Johns Hopkins University, graduate work, 1900-1902.

Robert C. Kissling, Ph.D., *Associate Professor of Classics and Spanish.*

Concordia College, Milwaukee, diploma, 1898; Concordia Theological Seminary, St. Louis, Missouri, diploma, 1901; University of Chicago, Fellow in Greek, 1911-12; *ibid.*, Ph.D., 1913.

Audie John Lynn, M.A., C.P.A., *Associate Professor of Business Management.*

Bowling Green College of Commerce, Ky., B.C.S., 1912; Indiana University, A.B., 1917; Toledo University, M.A., 1919; University of Wisconsin, graduate work, 1919-1920; University of Chicago, graduate work, 1921-1923; Certified Public Accountant, Indiana, 1924; residence requirements for Ph.D. at University of Chicago completed.

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\*First semester, to November 10, 1928.

†Died October 12, 1928.



Ross Winship, M.A., *Associate Professor of Mechanical Engineering.*  
Cornell University, M.E., 1911; Columbia University, A.M., 1927; Columbia University  
two six-week Summer Sessions, 1927 and 1928.

### ASSISTANT PROFESSORS

Walter Emil Bauer, M.A., *Assistant Professor of History.*  
Concordia College, Ft. Wayne, diploma, 1917; Concordia Theological Seminary, St. Louis,  
diploma, 1921; Columbia University, M.A., 1922; Harvard University, student, 1922-1923.

Virgil Edwin Berry, LL.B., *Assistant Professor of Law.*  
Indiana University, LL.B., 1909; Logansport, Indiana, Attorney at Law, 1911-1913.

William Gray Loehr, LL.B., *Assistant Professor of Law.\**  
Winona College, Indiana, A.B., 1915; Indiana University, A.B., 1917; Indiana University,  
LL.B., 1918; Harvard University, graduate work, 1920-1921; Warsaw, Indiana, Attorney  
at Law, 1921-1928; Prosecuting Attorney, 1927 and 1928.

Walther M. Miller, M.A., *Assistant Professor of German.*  
Concordia College, Ft. Wayne, diploma, 1916; Concordia Theological Seminary, St. Louis,  
diploma, 1919; Harvard University, M.A., 1922; Harvard University, student, 1919-1923.

John Wallace Morland, J.D., *Assistant Professor of Law.*  
Indiana State Normal School, diploma, 1910; Indiana University, A.B., 1916; *ibid.*, LL.B.,  
A.M., 1917; University of Chicago, J.D., 1922.

Rene Wentworth Pinto, Ph.D., *Assistant Professor of Political Science.*  
New York Military Academy, diploma, 1914; *ibid.*, graduate student, 1914-16; United  
States Military Academy, student, 1916-17; University of Wisconsin, A.B., 1922; Columbia  
University, A.M., 1925; University of Wisconsin, Ph.D., 1927.

Pleasant Ernest Roller, Ph.D., *Assistant Professor of Physics.*  
Friends' University, Wichita, Kansas, B.A., 1920; University of Colorado, M.A., 1923;  
University of Nebraska, M.S., 1926; University of Colorado, Ph.D., 1927.

Walter Eugene Thrun, Ph.D., *Assistant Professor of Chemistry.*  
University of Michigan, A.B., 1912; *ibid.*, M.S., 1914; University of Missouri, Ph.D.,  
1917; Johns Hopkins University, Fellow in the School of Hygiene and Public Health, 1919.

Arthur Hoyt Uhl, M.S., *Assistant Professor of Pharmacognosy.*  
University of Wisconsin, Ph.G., 1921; *ibid.*, B.S. in Pharmacy, 1925; *ibid.*, M.S. in  
Pharmaceutical and Plant Chemistry, 1927; *ibid.*, graduate work, two six-week Summer  
Sessions, 1927 and 1928.

Ivan Dale Watson, B.S., *Assistant Professor of Pharmacy.*  
Purdue University, Ph.G., B.S., 1925; *ibid.*, M.S., Feb., 1929.

Mae Lavinia Wells, M.A., *Assistant Professor of Home Economics.*  
Columbia University, B.S., 1914; *ibid.*, M.A., 1918; *ibid.*, graduate work, six six-week  
Summer Sessions, 1921-1924, 1927, 1928.

### INSTRUCTORS

Herman Blickensderfer, B.S., *Instructor in Civil Engineering.*  
Missouri School of Mines and Metallurgy, B.S., 1927.

Ralph Hamilton Blodgett, M. A., *Instructor in Economics.*  
University of Vermont, B.S., 1927; University of Syracuse, M.A., 1928.

Paul Tillson Copp, M. A., *Instructor in Mathematics.*  
Ohio State University, A.B., 1921; *ibid.*, M.A., 1922; *ibid.*, graduate work, eleven weeks  
Summer Session, 1922; University of Chicago, graduate work, eleven weeks Summer Session,  
1927; *ibid.*, six weeks Summer Session, 1928.

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\*Service began November 12, 1928.



Margaret Ball Dickson, M.A., *Instructor in English Language and Literature.*

Iowa State Teachers College, B.A., 1925; University of South Dakota, Teaching Fellow in English, 1925-26; *ibid.*, M.A., 1927; University of Iowa, graduate work, three five-week Summer Sessions, 1926-1928.

Lily Hambly-Hobbs, *Instructor in Voice and Public School Music, Director of Chorus and Women's Glee Club.*

Cardiff Normal College, Wales, Teacher's Diploma, four-year course, 1895; University of South Wales and Monmouthshire, post-graduate student in Education and Music, 1895-97.

Herbert Nelson Hooven, *Instructor in Art.*

Pennsylvania Museum and School of Industrial Art, certificate, 1917; Pennsylvania Academy of Fine Arts, student, 1919-20; still life under Hugh Breckenridge and portrait painting under John Philip Hale, 1919-1920; Beaux Arts Institute of Design, New York City, 1920-1921; illustration under Thornton Oakley, 1921-1922.

Marjorie Elizabeth Hough, M.A., *Instructor in French.*

Cornell College, B.A., 1920; Columbia University, M.A., 1923; *ibid.*, Lydia C. Roberts Fellow, 1922-23; University of Poitiers, Tours, France, graduate work, three weeks Summer Session, 1926.

Fred Henry Kaufmann, M.S., *Instructor in Botany.*

University of Wisconsin, B.S., 1925; Michigan State College, M.S., 1926; University of Wisconsin, six weeks Summer Session, 1928.

Anna Winans Kenny, Ph.B., *Instructor in Education.*

Valparaiso University, A.B., 1922; University of Chicago, Ph.B., 1925; *ibid.*, part-time graduate work, 1925-28; residence requirement at University of Chicago toward M.A., completed.

Paul Reinhold Lankenau, B.S., *Instructor in Physical Education and Director of Athletics.*

Bowling Green Normal College, Ohio, B.S., 1928.

Mario Angelo Marzulli, M.S., *Instructor in Electrical Engineering.*

Newark State Normal, New Jersey, Permanent Teacher's License, 1920; Purdue University, B.S. in E. E., 1926; University of Cincinnati, M.S. in Engineering, 1928.

Alfred Herman Meyer, M.A., *Instructor in Geology and Zoology.*

University of Illinois; A.B., 1921; *ibid.*, A.M., 1923; University of Chicago, graduate work, twelve weeks Summer Session, 1924; *ibid.*, two weeks Summer Session, 1926; Northwestern University, graduate work, eight weeks Summer Session, 1927; University of Michigan, graduate work, eight weeks Summer Session, 1928.

Elizabeth Anna Marie Rechenberg, A.B., *Instructor in Botany.*

Valparaiso University, A.B., 1921; Indiana University, graduate work, eight weeks Summer Session, 1926; *ibid.*, ten weeks Summer Session, 1927; *ibid.*, twelve weeks Summer Session, 1928.

Edna Bertha Marie Seebach, B.S., *Instructor in Home Economics.*

The Stout Institute, Menomonie, Wisconsin, diploma, 1921; University of Minnesota, B.S., 1924; Columbia University, graduate work, two six-week Summer Sessions, 1927 and 1928.

Margaret Lillian Seidel, *Instructor in Violin and Piano. Director of the Orchestra and Band.*

Northwestern University School of Music, diploma, 1923.

Moses Walter Uban, A.B., *Instructor in Engineering and Mathematics.*

Valparaiso University, A.B., in Education, 1922; University of Chicago, graduate work, six weeks Summer Session, 1922; *ibid.*, part-time graduate work, 1927 and 1928.



Irvin Andrews Wills, B.S., *Instructor in Zoology.*

Wheaton College, Illinois, B.S., 1927; University of Chicago, graduate work, six weeks Summer Session, 1928.

Myers Elwood Zimmerman, A.B., *Instructor in Shorthand, Typewriting, and Penmanship.*

Valparaiso University, A.B. in Education, 1921.

#### PART-TIME INSTRUCTORS AND LECTURERS

Edgerton William Agar, B.S., LL.B., J.D., *Part-time Instructor in History and Business Law.*

Valparaiso University, LL.B., 1897; Northern Indiana Normal School, B.S., 1898; Valparaiso University, J.D., hon., 1920.

William Clifford, *Part-time Instructor in Voice, Director of Men's Glee Club.*

Drake University Conservatory of Music, diploma, 1909; voice under various teachers, including Emma von Elsner, retired opera singer, Hamilton Hopkins, pupil of Casini, George Nelson Holt, America's representative of Jean de Rezke, and Villonat of Paris, 1909-1921.

Grant Crumpacker, LL.B., *Lecturer in Law.*

Valparaiso University, LL.B., 1894; Valparaiso, Indiana, Attorney at Law, since 1894; Valparaiso University, Instructor in Law, 1894-1909; Porter County, Indiana, County Attorney, 1906-1927; *ibid.*, Judge of Circuit Court, since 1927.

Jesse Wilson Gammon, LL.B., *Part-time Instructor in Law.*

Valparaiso University, LL.B., 1922; Gary, Indiana, Attorney at Law, since 1922.

Henry Herman Kumnick, A.B., LL.B., *Part-time Instructor in Law and Religion.*

Concordia College, Milwaukee, diploma, 1911; Concordia Theological Seminary, St. Louis, diploma, 1914; University of Montana, A.B., 1922; *ibid.*, LL.B., 1924.

H. H. Loring, LL.B., *Lecturer in Law.*

Valparaiso University, LL.B., 1894; Valparaiso, Indiana, Attorney at Law, since 1894; *ibid.*, City Attorney, 1902-1908; Porter County, Judge of Circuit Court, 1915-1927.

Daniel J. Moran, A.B., LL.B., *Lecturer in Law.*

Indiana State Normal School, diploma, 1893; Indiana University, A. B., 1895; Indiana University, LL.B., 1898; Hammond, Indiana, Attorney at Law, since 1898.

Anna Theodata Morony, *Part-time Instructor in Organ.*

Valparaiso Normal School, diploma, 1895; piano under Rinfrock, Ganz, and Godowski; organ under Havens, Wild, and Middleschulte.

Benjamin Clifford Rees, LL.B., *Part-time Instructor in Law.*

Indiana University School of Law, LL.B., 1908; LaPorte, Indiana, Attorney at Law, 1909-1928.

John Carl Richter, LL.B., *Lecturer in Law.*

University of Michigan, College of Liberal Arts, student, 1882-1883; *ibid.*, LL.B., 1886; LaPorte County, Indiana, Prosecuting Attorney, 1894-1898; *ibid.*, Judge of Circuit Court, 1899-1911; Judge of Juvenile Court, 1922-1929.

Aurelio Scalzitti, B.M., *Part-time Instructor in Wind and String Instruments.*

Musical College, Milan, Italy, 1912-1915; Lewis Institute, Chicago, 1925-1926; Balatka College, Chicago, B. M., 1928.



## CRITIC TEACHERS

Helen Mabel Benney, Ph.B., *Training Teacher of English, Valparaiso High School.*

Joseph Beasley Brown, A.B., *Training Teacher of Manual Arts and Coach, Valparaiso High School.*

Homer Marion Jessee, A.B., *Training Teacher of Mathematics and Principal of Valparaiso High School.*

Claude Owen Pauley, A.B., *Training Teacher of Science, Valparaiso High School.*

Frieda Aldinger Schenck, Ph.B., *Training Teacher of Mathematics, Valparaiso High School.*

Ralph Eugene Schenck, M.A., *Training Teacher of History and Commercial Subjects, Valparaiso High School.*

Hazel Dell Sowers, B.S., *Training Teacher of Arithmetic and History, Seventh Grade, Valparaiso Junior High School.*

Mary E. Stevens, B.M., *Training Teacher of Music, Valparaiso Public Schools.*

Quita W. Thomas, A.B., *Training Teacher of Latin, Valparaiso High School.*

Naomi Turner, *Training Teacher, Fourth Grade, Banta School, Valparaiso.*

Edith Helen Weems, A.B., *Training Teacher of Home Economics, Valparaiso High School.*

Russell Harrison White, A.B., *Principal of Valparaiso Junior High School.*

## STUDENT ASSISTANTS

*In Business Management*  
Esther Monnig.

*In Chemistry*  
LeRoy Gunder.

*In Physics*  
Joseph Klein.

*In the College of Pharmacy*  
Kresco Grbac.

Margaret Timmons.

*In the Law Library*

Joe C. Berbling.

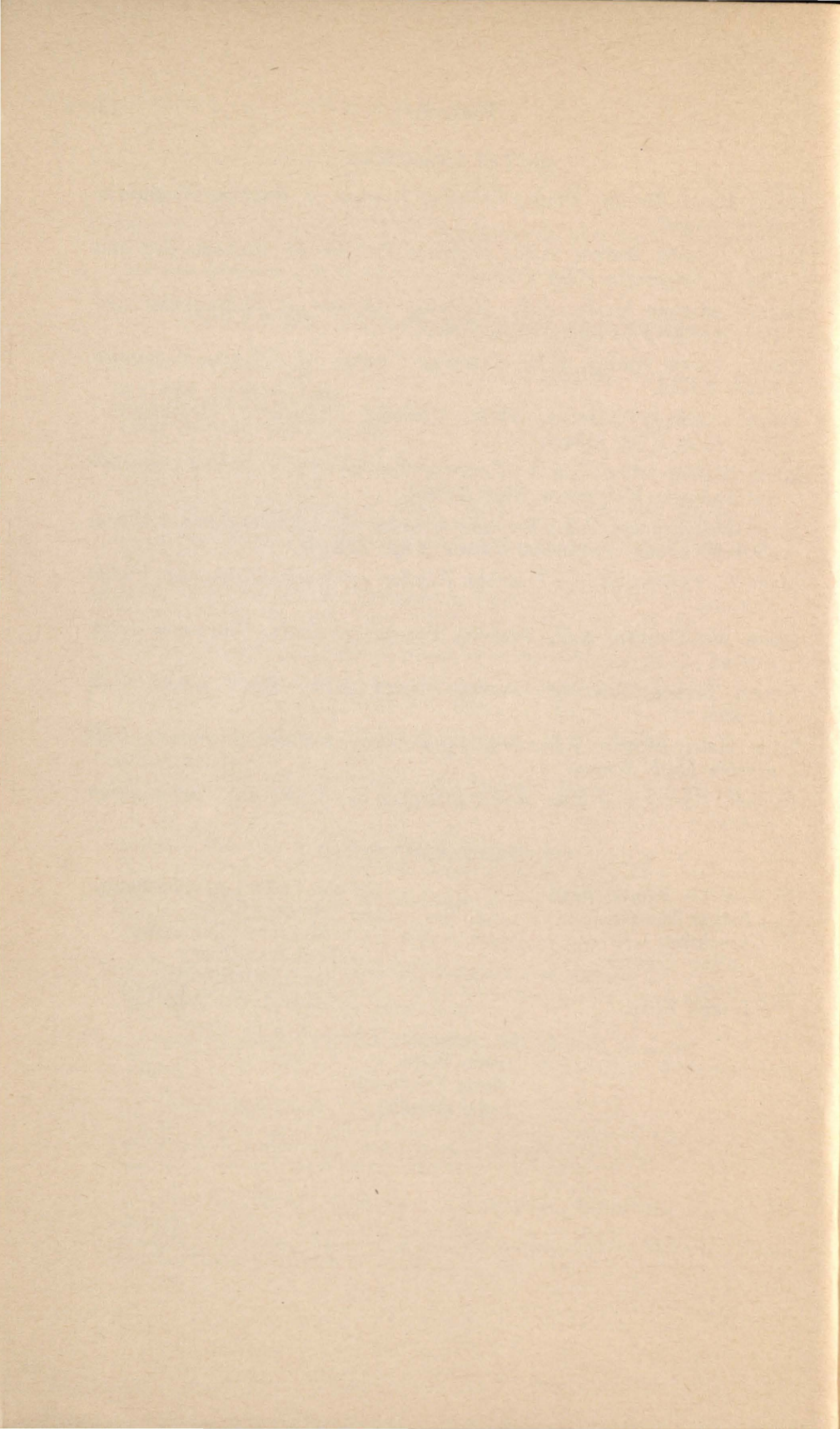
Hilbert W. Dahms.

*In the University Library*

Irene Bolte.

Maria Friederich.

Irene Reindel.





**PART II**  
**GENERAL INFORMATION**

### THE AIMS OF THE UNIVERSITY

Valparaiso University is committed to that ideal in education according to which the development of character is intended to keep pace with the growth of the student's physical and intellectual powers. While the University aims, therefore, to impart knowledge and to improve skill, its prime objective is to inspire and to train the student to use his increasing powers not for himself only, but also for others and to put the Christian motive into his service.

With this objective always in view, the student is given a thorough survey of the material and social world during his freshman and sophomore years in order that he may have, first of all, a basic and a wholesome appreciation of past contributions to civilization. Upon this foundation of general understanding and culture there is built a definite course of study in some chosen field of specialization during the student's junior and senior years or during his years of professional training.

Accordingly, Valparaiso's invitation is directed to parents who desire to provide, and to prospective students who desire to secure, a liberal education.

Students of all denominations are welcomed.

### LOCATION

The University is located at Valparaiso, Indiana, forty-four miles southeast of Chicago. Valparaiso is a city of some ten thousand inhabitants; it is the county seat of Porter County and is in a thriving agricultural region adjoining the populous industrial communities centering about Chicago. Gary, Hammond, Indiana Harbor, Whiting, Michigan City, La Porte, and South Bend are within easy reach. The Lincoln Highway and the Yellowstone Trail give easy access to the city for those who travel by automobile. Three railroads, the Pennsylvania, the Grand Trunk, and the Nickel Plate give Valparaiso service better than that boasted by many larger communities. Excellent commutation service is maintained with Chicago. An electric interurban line links the city with Gary.

The city is beautifully located approximately on the crest of what is called the Valparaiso Terminal Moraine, the highest ridge in Northern Indiana, which acts as the watershed between the Great Lakes-St. Lawrence and the Mississippi drainage system. From College Hill, a knoll rising to an elevation of about 790 feet above sea level at the southeastern edge of the city, where the University buildings are grouped, the view to the south, in the direction of the Kankakee River and its famous marshes, is especially beautiful. Sager's Lake, which lies in this direction, is a particularly favored spot. Toward the north, the Sand Dunes are of unusual interest as natural formations of great geologic, biologic, and scenic interest.

Very unusual opportunities are offered to students of Geology, Botany, and Zoology in the natural laboratories provided by the desert conditions of the dunes, and by the abundance of water and aquatic plants and animals in the intermorainal and interdunal pockets on either



side of the main ridge. Furthermore, the nearness of the Calumet industrial region and the exceptionally central location of the University with respect to Chicago, Detroit, and Indianapolis, make this an especially favored school from the standpoint of the applied sciences, both physical and social, as well as from that of the commercial studies. Inspection trips, for instance, to the Field Museum of Chicago, to the Steel Mills of Gary, and to the Dunes State Park, form a regular part of the course of study in the several departments.

From a residential point of view, Valparaiso offers many advantages lacking in the great cities: abundance of pure air, broad shaded streets, and open country within a fifteen minutes' walk from the business district. As a place for the training of youth, Valparaiso offers advantages superior in many respects to those of the big city, removed as it is from many disturbing influences.

### HISTORY AND GOVERNMENT

The origin of Valparaiso University dates back to the days before the Civil War when, on the 21st of September, 1859, the Valparaiso Male and Female College, a Methodist school, opened its doors with seventy-five students and a faculty of six members. Housed at first in a temporary building where Music Hall now stands, the school prospered so well that the following year a substantial brick building, the historic Old College Building, was erected. The outbreak of the Civil War resulted disastrously for the new institution. Loss of students and financial distress finally caused the college to suspend classes in 1869.

On September 16, 1873, however, Henry Baker Brown, a professor of Mathematics, reopened the old college, under the name of the Northern Indiana Normal School and Business Institute, with five teachers and thirty-five students. Mr. Brown possessed qualities of organization and leadership that quickly brought success to his venture. In 1881 Mr. Brown was joined by Mr. Oliver Perry Kinsey, who became Vice-President of the institution.

In 1900 the name of the school was changed to Valparaiso College and in 1907 to Valparaiso University. President Brown and Mr. Kinsey had planned to turn the institution over to a self-perpetuating board of trustees. But these plans did not immediately mature. Mr. Brown's death intervened on September 16, 1917. Two years later, in May, 1919, Mr. Kinsey retired to a well-earned rest at the age of seventy.

In the fall of 1925 the Lutheran University Association, an Indiana corporation, was persuaded to take over and to continue the University. This Association now controls the physical plant of the University and manages the endowment. From its membership are chosen the officers of the Valparaiso University Association, which directs the University as its governing body.

### BUILDINGS AND EQUIPMENT

The University occupies a number of commodious buildings, grouped in the neighborhood of University Place.



The Auditorium is on the west side of College Avenue. The ground floor contains the office of the registrar, several classrooms, and some departmental offices. The second floor has a splendid auditorium with a seating capacity of about fifteen hundred.

Music Hall, a three-story building, is directly opposite the Auditorium. It contains the University administrative offices, a number of studios, harmony and recital halls, and many private practice rooms.

Science Hall faces north and is opposite the Auditorium on University Place. The ground floor contains the physics laboratory and work shop, a large chemical laboratory, and the general stock room. The first floor contains the lecture rooms for physics and chemistry, the analytical laboratory, weighing room, offices for the chemistry and physics departments, and a research laboratory. The second floor houses the College of Pharmacy with its offices, a large pharmacy and dispensing laboratory, a pharmacognosy laboratory, and several lecture rooms.

Immediately west of Science Hall is the Biology Building, containing a number of class rooms and three well-equipped laboratories for botany, geology, and zoology.

The University Library is housed in a building north of the Auditorium, on College Avenue. It contains 15,000 volumes and subscribes for approximately 150 periodicals.

Commerce Hall, a modern building, is north of the Library, at the intersection of College Avenue and Freeman Street. This building houses the Department of Home Economics on the ground floor, the School of Law with its library on the first floor, and several departments of the College of Liberal Arts on the second and third floors.

The Engineering Building is used exclusively for Civil, Electrical, and Mechanical Engineering and for Industrial Arts. There are extensive machine shops, electrical laboratories, wood working shops, drafting rooms, testing laboratories, foundries, a modern power plant, etc.

Plans are under way for the erection of a new and thoroughly modern field house to replace the gymnasium which was destroyed by fire. In the meantime, adequate arrangements have been made with the Public School authorities for the use of their new and commodious High School Gymnasium. Brown Field is well equipped for outdoor athletics. Its new tennis courts deserve special mention. The field is located near the University, on a large tract of land which is reserved for additions to the main university plant.

Grounds, buildings, and equipment are appraised at more than \$900,000 by the American Appraisal Company.

## **WHAT IT COSTS TO ATTEND VALPARAISO**

### **GENERAL FEES AND EXPENSES**

The total expense (Fees, board, and room) to a student, exclusive of railroad fare, clothing, and personal expenses, need not exceed \$250 for each semester.



The fees for the year, exclusive of laboratory fees, amount to \$203.00, distributed as follows:

Tuition .....	\$175.00
Health .....	3.00
Library .....	5.00
Lecture and Concert .....	3.00
Athletic .....	9.00
The Record .....	5.00
The Torch .....	3.00
	<u>\$203.00</u>

(For laboratory, music, and other academic fees see information given under the respective departments and courses.)

*Tuition fee*—The total for a semester is \$87.50; for the year \$175.00. The tuition for each semester is payable strictly in advance. Part-time students registering for 9 credit hours or less pay \$6.00 per credit hour and full fees. Students registering for 5 credit hours or less, pay the library fee in addition to the tuition charge of \$6.00 per credit hour.

*Auditor's fee*—\$6.00 per credit hour.

*Health fee*—The full health fee is charged all students except those who reside with their parents and are under the care of their own family physician. This fee provides for required physical examination and for attention from the University physician during his office hours.

Resident students pay only a nominal fee to cover the required physical examination.

*Library, Lecture and Concert fees*—The Library fee admits the student to the Library, the Lecture and Concert fee to all University affairs.

*Athletic fee*—Admission to all intercollegiate contests during the year is secured by the athletic fee.

*Fees for "The Record" and "The Torch"*—In return for these fees the student receives the University annual and the University weekly newspaper.

*Refund of fees*—In case of formal withdrawal, the tuition fee is refundable as follows: Two-thirds until two weeks and one-third until ten weeks after the opening of a semester.

Health, library, lecture and concert, athletic, The Record, Torch, and laboratory fees are not refundable.

Refunds must be claimed within six months of the close of the semester. Unclaimed amounts are turned over to the University's Student Loan Fund.

#### SPECIAL FEES

*Matriculation*—\$5.00. This fee is payable once only, when the student is admitted to the University, and is not returnable.

*Late Registration*—\$1.00 for first day after registration and fifty cents per day additional thereafter until the close of the second week.

*Condition Examination*—\$3.00.

*Make-up or Special Examination*—\$1.00.

*Change in Program*—\$1.00, unless the change is required by the University. See change in program under Admission.

*Graduation*—\$10.00.



### ROOMS

Rooms for women may be had at rates ranging from \$35.00 to \$50.00 per semester. Rooms for men range from \$30.00 to \$50.00 per semester. Bed linens and blankets are not included at these prices.

### BOARD

Excellent board may be had at the University Commons for \$90.00 per semester or \$5.50 per week. Students remaining at the University during the holiday vacations will be charged a proportionate amount for table service during these periods.

### VALPARAISO UNIVERSITY ASSOCIATION, PAYEE

Checks and money orders should be made payable to the Valparaiso University Association.

### CARE OF STUDENTS

*Routine of Matriculation and Registration*—Upon reaching Valparaiso students should come direct to the Administrative Offices of the University. Here all the necessary information will be supplied respecting registration, rooms, and board. Students should not contract for rooms before consulting the University authorities.

*Living Accommodations*—The men's dormitory is Lembke Hall. It is a spacious structure with two wings, North and South Lembke, and is set aside principally for freshmen students. Other college men may also elect to live there. Its accommodations include parlor, clubrooms, some rooms for single students, and a large number of two-room suites for two students. The rooms are furnished, with the exception of curtains, towels, and bedding. All non-resident freshmen are required to reside in Lembke Hall.

Besides Lembke Hall, additional quarters for men may be secured in houses near the University, provided they are on the approved list which is kept on file in the office of the Dean of Students.

Altruria Hall is the dormitory for women. It contains a spacious reception hall where women students may gather for social affairs. Most rooms accommodate two girls; some rooms are single. The rooms are furnished, with the exception of curtains, towels, and bedding. Non-resident women students are required to live at Altruria Hall.

No deviation from rules can be permitted except after a thorough investigation by the Dean of Students, to whom written application must be made with a full statement of the circumstances.

Both Lembke and Altruria Halls, as well as all rooming houses, are under the care of matrons who reside in them.

University women and men in their freshmen year who cannot be accommodated in their respective halls will be assigned to other rooms until space becomes available in the halls.

*University Commons*—The University Commons are located in Altruria Hall and are able to provide meals for a large number of students. All non-resident freshmen are required to eat at the commons.

*Medical Supervision*—The University assumes, so far as possible, the responsibility of safeguarding the health of students. It encourages them



to maintain a high degree of physical fitness. All non-resident students are free to consult the University physician during his daily office hours without extra charge.

*Religious Influence*—The religious work of the University is under the direction of the Dean of Students. Chapel exercises are conducted daily during the regular scholastic year. Attendance is optional, but students are encouraged to participate in these inspirational services.

Every courtesy is extended to city pastors to enable them to remain in touch with their respective students.

*Standards of Life*—Matters of conduct are in the hands of the Dean of Students. Close supervision of all extra-curricular activities is also maintained by his office. Faculty members, as selected jointly by the Dean of Students and student organizations, assist the Dean in the supervision of extra-curricular activities, including every social function at the University.

*The Advisory System*—It is the aim of the Administration to remain in close touch with each student. Hence, each student is given a provisional faculty adviser at the time of his admission. As soon as he has selected his major study, he is assigned to the adviser in the department of his major study.

Each adviser aims to know personally every student in his division. He tries to note the special abilities of each student and on the basis of such observation guides him in the arrangement of his schedule so that he may choose the right field of concentration and subsequently meet all the requirements for graduation in the proper sequence. The adviser constantly encourages the student to strive for excellence and high standards of performance.

The advisers meet with the Dean of the University at stated intervals and make reports to him every six weeks.

## HEALTH AND PHYSICAL EDUCATION

Every student, upon entering, receives a physical examination which forms the basis for special advice and for prescribed work where this is needed.

Athletic sports and exercises for men are encouraged as a part of the University's program of physical education. The University is a member of the Indiana Intercollegiate Conference and fosters both inter-collegiate and intramural athletics.

Brown Field also provides facilities for outdoor sports for women, including field hockey, tennis, archery, and baseball.

Under the direction of the Department of Health and Physical Education the Women's Athletic Association arranges for tournaments and is custodian of all equipment, such as hockey sticks, tennis nets, basketballs, bats and balls. Numerals and chevrons are awarded for proficiency in sports. Every woman student is a member of the Association.



### LITERARY AND MUSICAL ADVANTAGES

*Lectures and Concerts*—An important feature of the work at Valparaiso is the course of lectures by invited speakers. They are delivered before the students of all departments. Concerts and recitals by prominent musicians assist in the cultivation of a high musical standard.

*Musical Organizations*—The size of the student body makes possible an excellent variety of chorus work. Chapel choirs provide opportunity for the singing of sacred music. The University Chorus gives splendid drill in the study and rendition of masterpieces. The Men's Glee Club and the Women's Glee Club occupy a prominent place in the musical life of the University. The Orchestra and Band have also made a good record for themselves in the life of the school and of the community. All of these organizations are under the direct supervision of the instructors in Music.

*Literary and Scientific Societies*—Departmental societies of the College of Liberal Arts as well as similar groups of the College of Pharmacy and the School of Law give an opportunity to present essays, orations, discussions, and criticisms. These societies include such as the English Club, Le Cercle Francaise, Der Goethe Verein, the Biology, Social Science, and Engineering Clubs, as well as the Pharmaceutical Association, and the Lawyers' Union.

*Debating*—Debating has been organized to provide training and experience for a larger number of students. Sophomores as well as upper classmen are eligible for membership. The Forensic Union meets weekly for practice and instruction. Teams are selected from its members to represent the University in public debates. It is the policy of the Union to give every member an opportunity to appear in at least one public debate during the course of the year.

A Junior and Varsity intercollegiate debate schedule has been provided for. Debating is supervised by the section of Public Speaking in the Department of English Language and Literature. Academic credit is granted for the work.

*The Dramatic Art Society*—The Dramatic Art Society is composed of students and faculty members who are actively interested in producing plays. It produces before its own members and occasionally before the public interesting examples of old and new standard plays. The Society seeks always to put emphasis upon literary and artistic values rather than to strive after the merely spectacular. It plays strictly in the amateur spirit and does not desire to imitate the professional theatre. Dramatics also are under the supervision of the Public Speaking section of the Department of English Language and Literature.

*Student Publications*—The weekly newspaper of the University, "The Torch," is edited by the students under the supervision of the Department of English Language and Literature. The paper serves the purpose of a laboratory for students in Journalism.

"The Taper" is the publication of the students in poetry who are organized as a section of the Indiana State Poetry League.

The yearbook, "The Record," is published by the Junior Class. It furnishes information on the faculty, classes, activities, and organizations of the year.



## **PART III**

### **ADMINISTRATIVE PROCEDURE**

### ADMISSION

*The Academic Year*—The College of Liberal Arts has both a Long Session and a Summer Session. The College of Pharmacy and the School of Law have only a Long Session. The Long Session includes two semesters, the first beginning September 19th and ending February 8th; the second beginning February 10th and ending June 14th.

### REGISTRATION

*Registration Days*—For the Long Session of 1929-30 the registration days are as follows:

First semester: Thursday, September 19th, for the registration of Freshmen; Friday, September 20th, for the registration of all other students.

Second semester: Monday, February 10th.

*Control Over Admission*—Admission to the University is under the control of the registrar.

*Methods of Admission*—An application blank may be secured by addressing the registrar. This should be filled out and forwarded to the registrar of the University who will then tell the student what to do. A student's credentials must be approved by the registrar before his registration is complete. High School certificates and other credentials should be filed as early as possible. All certificates upon which admission is granted become the property of the University and are preserved in its permanent files.

*Late Registration*—The student must pay an additional fee for late registration. No student will be allowed to enter for credit after 12:00 M. Saturday, October 5th in the first semester, or 12:00 M., Saturday, February 22nd in the second semester.

*Responsibility of Students upon Registration*—In registering, the student subscribes to the terms and conditions, financial and otherwise, specified in these announcements.

*Change in Program*—For changes in the student's program two weeks after the regular registration days, a fee of \$1 will be charged for each subject changed, unless the change is required by the University. Changes will be made only when approved by the student's adviser. In no case, except for prolonged illness, will a student be allowed to change his program of studies or withdraw from a course without a grade of F, after the end of the sixth week of the semester. See Special Fees.

*Attendance on Courses as Visitors*—Attendance by a registered student as a visitor in a course for which he is not registered is allowed only with the approval of his adviser.

*Transfer*—If a student transfers from one program of study to another, as for instance, from Pharmacy to Law or from Engineering to Education, all requirements of the new specialization must be met. Such a transfer will subject credits previously earned to a re-evaluation. In certain cases the change of program may result in some loss of credit. Such transfers should, therefore, not be made without the written approval of the advisers concerned.



*Withdrawal*—A student who wishes to withdraw from the University for the remainder of a session should apply to the registrar for the mode of procedure. Upon presentation of the permit, the registrar will issue an order for the return of such fees as are returnable. In every case the parent or guardian is notified of the withdrawal by the Dean of Students.

The term "honorable dismissal" refers to conduct and character only, not to class standing and grades. It will not be granted unless the student's conduct and character are such as would entitle him to continue in the University.

On withdrawal every student is entitled to a transcript which contains all the important facts pertaining to his admission, classification, and scholarship.

#### ADMISSION TO THE FRESHMAN CLASS

*General Entrance Requirements*—Students with acceptable scholastic records from accredited high schools and satisfactory recommendations will be admitted as:

- (a) Freshmen, if they present fifteen suitable units earned in grades IX, X, XI, XII.
- (b) Freshmen, if they present twelve suitable units earned in grades X, XI, and XII.

Graduates of accredited high schools who have not included in their high school courses the specified amount of work in the prescribed entrance subjects will be admitted under certain circumstances as conditioned students. The deficiency must be removed within twelve months from the date of admission.

*Accredited High Schools*—The University accepts as its list of accredited high schools the lists prepared by the high school inspectors of the various States, and those approved by the North Central Association or by accrediting associations of the same standing. Graduates of non-accredited high schools should communicate with the registrar who will present their application to the Committee on Admissions. Students are admitted from such schools only on condition that their work proves satisfactory.

*Definition of Unit*—One unit represents the completion of a year's work in a given subject, with daily recitations of 45 minutes each, for a school session of at least 36 weeks.

*Required Entrance Units*—The high school transcript must show a minimum of fifteen units of work, distributed as follows, with exceptions as noted:

##### 1. *English*

- (a) \*Composition ..... 1 Unit
- (b) Elementary Rhetoric ..... 1 Unit
- (c) American or English Literature or both..... 1 Unit

##### 2. *Mathematics†*

- (a) \*Algebra ..... 1 Unit
- (b) Plane Geometry ..... 1 Unit

(Two units in unified mathematics may be substituted.)

\*These subjects may be taken in Junior High School, but do not reduce the requirements of twelve units for Senior High School students.

†For admission to Engineering, freshmen must produce  $\frac{1}{2}$  unit additional in algebra, also  $\frac{1}{2}$  unit additional in solid geometry.



3. *Two elective groups*, each of not less than 2 units selected from:
  - (a) \*One foreign Language—French, German, Spanish, Latin or Greek.
  - (b) Social Studies, including History or Bible.
  - (c) Natural Science.
  - (d) Practical and Fine Arts. Not more than four units.
4. *Electives*, to make a total of:
  - (a) Fifteen units for regular four year high school students.
  - (b) Twelve units for three year students from Senior High Schools.

*Foreign Students*—Students from approved schools in foreign countries will be admitted under the same general conditions as those from American schools, provided they have a sufficient working knowledge of English to enable them successfully to carry regular work.

*Admission as Special Students*—Persons are admitted as special students under the following conditions: (1) They must be prepared to do the work desired, and give good reason for not taking the regular course; (2) They must be at least twenty-one years of age.

Special students are not admitted to the School of Law.

*Admission to Advanced Standing*—Estimates of advanced standing will be made only when official transcripts of studies pursued are presented. Arrangements must be made with the Registrar for any advanced credit. Any advanced standing granted is provisional; it is conditioned upon the ability of the candidate to pursue the advanced courses which he enters. The student must show by his transcript that he is entitled to an honorable dismissal.

## EXAMINATIONS AND STANDING

*Regular Examinations*—The regular written examinations of the University are held at the close of each semester. Each examination is usually limited to three hours.

In addition to the regular prescribed examinations, written tests are given from time to time, at the discretion of the instructors.

The semester examinations are conducted according to a published schedule.

*Special Examinations*—Special examinations are given only to conditioned (grade E) students and to students who for adequate reasons have not been able to be present at regular examinations or written tests. The privilege of special examination is granted by the adviser on recommendation of the instructor. A condition grade of E must be removed by special examination during the next academic year. If not so removed, the grade E becomes a grade F and the Registrar is authorized to make the change on the student's permanent record. In no case may a student remove a grade F (failure) by special examination. The subject must be repeated for credit.

The student is charged a fee of \$1 for each special examination or written test. This fee must be paid before the examination can be given by the instructor.

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\*These subjects may be taken in Junior High School, but do not reduce the requirements of twelve units for Senior High School students.



## STANDING OF STUDENTS

*Marking System*—Results of work will be recorded in the registrar's office as follows:

A. Exceptionally high quality, valued at three (3) quality points for each credit.

B. Good, valued at two (2) quality points for each credit.

C. Fair, valued at one (1) quality point for each credit.

D. Unsatisfactory; indicates a deficiency and gives no quality points, but gives credit for graduation if with such credits the student's standing is one (1) or more.

E. Condition grade. Requires special examination for its removal; otherwise it becomes an F automatically.

F. Failure, valued at 0 credits and 0 quality points.

I. Incomplete; indicates satisfactory work, some part of which is incomplete; must be removed within academic year.

W. An authorized withdrawal.

Any student withdrawing from a subject without first securing the official permission of his adviser will receive a grade of F in that subject for the semester.

*Definition of the Standing of a Student*—A student's standing is determined by the ratio of his total number of quality points to his total number of credits. Thus, a student who makes an average mark of C throughout his course of 124 semester hours will have 124 quality points and 124 credits, and a standing of one. An average mark of B will give the student 248 quality points and 124 credits and a standing of two. When a semester's work is to be considered, "standing" is understood to be the ratio of the number of quality points gained to the number of credits scheduled.

*Passing Grade.* Any student who does not maintain a passing grade in at least three three-hour courses or the equivalent will be requested to withdraw from the University. In the case of a freshman this rule may be waived by the Committee on Scholarship upon the recommendation of the adviser.

## AMOUNT OF WORK

*Credit Hour*—A credit represents one hour of recitation or lecture, or two or more hours of laboratory a week for one semester. If time outside of the laboratory is required to prepare laboratory notes, two hours may be equivalent to one hour of class work. Drawing, shopwork, physical education, and other courses demanding no outside preparation require a minimum of three hours for one credit. For the exact number of hours see the respective courses.

*Amount of Credit per Semester*—The average amount of work regularly required of each student is fifteen hours a week, exclusive of physical education.

No regular student may register for less than twelve, nor more than eighteen hours, exclusive of physical education. No student of a college of this University, except he be a student in Engineering or Pre-Medicine,



may register for more than sixteen or for less than fourteen hours, unless by special permission of the Committee on Scholarship. This permission will be granted only on written application before registration is completed. To be eligible to carry extra work, the student must have a standing of at least two for the preceding semester. Freshmen will not be allowed to carry extra work. If additional work is taken with the consent of the Committee on Scholarship, it must be dropped, whenever the student's work proves unsatisfactory. A standing of 1.5 is to be maintained by the student in all subjects, or sixteen credits only will be granted, no matter how many hours are passed in class.

*Number of credit hours students may take each semester without petition—*

College of Liberal Arts:

In all departments except Engineering.....Maximum, 16 credits

In Civil, Electrical, Mechanical Engineering and

in Pre-Medicine .....Maximum, 18 credits

College of Pharmacy .....Maximum, 16 credits

School of Law .....Maximum, 14 credits

#### GRADE REPORTS

*Semester Reports from the Registrar*—Reports are sent out to parents and guardians of all students in the University at the end of each semester. Self-supporting students over 21 years of age may receive their reports instead of their parents, if they so request in writing.

*Intra-semester Reports from the Adviser*—On November 14th, December 16th, March 24th, and May 5th, the instructors report to the Registrar all students whose grades fall below the passing mark C. The Registrar reports such students to their advisers in order that they may hold a special conference with the students concerned.

#### CLASSIFICATION OF STUDENTS

A student is classified according to the number of credits and quality points earned toward the degree. The following credits and quality points are needed for classification of students:

Admission to freshman class: 15 suitable entrance units.

Admission to sophomore class for all departments except Engineering: At least 24 credits and 18 quality points, or registration in courses amounting to 54 credits at the end of the academic year.

For the Department of Engineering: At least 27 credits and 20 quality points, or registration in courses amounting to 61 credits at the end of the academic year.

Admission to junior class for all departments except Engineering: At least 54 credits and 50 quality points, or registration in courses amounting to 88 credits at the end of the academic year.

For the Department of Engineering: At least 61 credits and 56 quality points, or registration in courses amounting to 99 credits at the end of the academic year.



Admission to senior class for all departments except Engineering: At least 88 credits and 88 quality points and registration in courses amounting to 124 credits at the end of the academic year.

For the Department of Engineering: At least 99 credits and 99 quality points and registration in courses amounting to 140 credits at the end of the academic year.

## GRADUATION

*Degrees*—Upon the recommendation of the faculty of the College of Liberal Arts the University confers the degree of Bachelor of Arts, Bachelor of Science in Engineering, and Bachelor of Music. Upon recommendation of the faculty of the College of Pharmacy the University confers the degree of Pharmaceutical Chemist and the degree of Bachelor of Science in Pharmacy. Upon recommendation of the faculty of the School of Law the University confers the degree of Bachelor of Law. In all cases the student is responsible for meeting the requirements for graduation.

*General Requirements for Degrees*—1. The minimum number of credits and quality points required for graduation varies with the courses chosen, as shown in the following summary. Candidates for degrees must meet the requirements both in number and kind of credits, as outlined in the catalog for the year of matriculation, or for the year of graduation, except that students who withdraw from the University for one semester or longer, will be graduated for the year in which they re-enter.

Degrees	Credits Required	Quality Points Required
<i>Bachelor of Arts</i>		
In all departments.....	124	124
<i>Bachelor of Science in Engineering</i>		
Civil Engineering .....	138	138
Electrical Engineering .....	140	140
Mechanical Engineering .....	138	138
<i>Bachelor of Music</i> .....	124	124
<i>Pharmaceutical Chemist</i> .....	96	96
<i>Bachelor of Science in Pharmacy</i> .....	124	124
<i>Bachelor of Laws</i> .....	78	78

2. All work toward a degree must have been completed to the satisfaction of the faculty recommending the degree.

3. Candidates for degrees must, except as noted elsewhere, spend at least the last year of work required for a degree in residence.

The last year of work is to be construed as a year of not less than thirty semester hours of credit in the College of Liberal Arts and Pharmacy, and twenty-four semester hours of credit in the School of Law.

4. Candidates for graduation must make formal application when registering for their last semester's work. The graduation fee must accompany the application.

5. A candidate must be present at Commencement in order to re-

ceive his degree. Degrees are not conferred *in absentia*, except on special permission from the President on recommendation of the Dean of the University.

6. A student who completes his work toward a degree in the Summer Session may be granted his degree at the end of that session.

7. Four summer sessions amounting to forty weeks will be considered equivalent to one year of residence.

*Degrees With Distinction*—Two grades of honors are conferred upon candidates at graduation:

(1) Students who attain to a standing of 2.6 up to 3 are graduated "With High Distinction." They must have been in attendance at least three years.

(2) Students who attain to a standing of 2.4 up to 2.6 are graduated "With Distinction."

A student who has been in attendance only for his last two years may also receive these honors, provided he attains to a standing of .2 greater than the above named.

*Class Honors in Scholarship*—The requirements for class honors in scholarship are as follows:

(1) The student must have removed all conditions.

(2) He must have been registered for at least fourteen hours of work per semester, exclusive of physical education.

(3) For freshmen honors the student must secure an average of 2 points per credit hour; for sophomore honors, an average of 2.3 points; for junior honors, an average of 2.4 points; for senior honors, an average of 2.5 points.

Freshmen reaching the required standard of excellence receive *Honorable Mention*; sophomores, juniors, and seniors are recognized as *Sophomore, Junior, and Senior Scholars*, respectively. Senior honors are awarded at Commencement; freshmen, sophomore, and junior honors at an Honor Assembly which is held in the fall.



## PART IV

### THE COLLEGE OF LIBERAL ARTS

*Accredited by the North Central Association of Colleges  
and Secondary Schools*

*Approved by the Indiana State Board of Education  
as a Class "A" Standard College for  
Teacher Training*

## DEGREES OFFERED IN THE COLLEGE OF LIBERAL ARTS

The following degrees are offered in the College of Liberal Arts: The degree of Bachelor of Arts in all departments except Engineering, the degree of Bachelor of Science in the Department of Engineering, and the degree of Bachelor of Music in the Department of Fine Arts.

Majors leading to the degree of Bachelor of Arts may be taken in the following departments: Biology; Business Management; Chemistry; Education and Psychology; Engineering (In Industrial Arts only); English Language and Literature; Fine Arts (Art and Music); Foreign Languages and Literatures (French, German, Latin, and Spanish); Health and Physical Education; Home Economics; Mathematics and Physics; Religion and Philosophy; Social Science (Economics, History, Political Science, and Sociology).

Majors leading to the degree of Bachelor of Science may be taken in Civil, Mechanical, and Electrical Engineering.

Majors leading to the degree of Bachelor of Music may be taken in Organ, Piano, Violin, Voice, and Theory and Composition.

### THE BACHELOR OF ARTS CURRICULUM

*Essential features*—The courses of study of the Bachelor of Arts curriculum provide a *general culture* unit and a *specialization* unit, that is, (1) in the freshman year orientation courses of fundamental educational value which build upon the high school curriculum, and (2) in the sophomore year introductory or survey courses, in varied fields or major avenues of service, as preliminary and prerequisite to specialization, and (3) in the junior and senior years the rather definite specialization in the narrower field of the student's primary and secondary interests. Hence the programs of study are divided into lower and upper divisions or into junior and senior college curricula.

#### I. THE JUNIOR COLLEGE CURRICULUM

(Freshman and Sophomore Years)

This outline of the junior college curriculum does not apply to pre-medical students or to students in Engineering.

##### 1. *Required Subjects, or the Constant, of the Freshman Year*

	Sem. I	Sem. II
Freshman Composition .....	3 cr.	3 cr.
*Survey course in Social Science.....	3 cr.	3 cr.
*Survey course in Natural Science.....	3 cr.	3 cr.
*Freshman Lectures (The Psychology of Thinking and Studying, 1 credit; The Use of the Library, 1 credit) ..	1 cr.	1 cr.
Foreign Language .....	3 cr.	3 cr.
**Music Appreciation (a survey course).....	2 cr.	
**Art Appreciation (a survey course).....		2 cr.
Personal Hygiene (each semester, 1 credit).....	1 cr.	1 cr.
Physical Education (each semester, 2 hours).....	0 cr.	0 cr.

\*As a rule these courses are limited to freshmen and are not required of students entering after the freshman year. Such students must, however, substitute for the orientation courses 6 credits in Social Science, 6 credits in Natural Science and at least 3 credits in Fine Arts, or Philosophy, or Psychology, or Religion.

\*\*Or electives for students in Music, Art, and Business Management.



2. *Required Subjects, or the Constant, of the Sophomore Year*

	Sem. I	Sem. II
Fundamentals of Speaking or The Bible and Civilization...	1 cr.	1 cr.
Types of Literature.....	0-2 cr.	0-2 cr.
Physical Education .....	0 cr.	0 cr.

3. *Required Prerequisites to Major and Minor Subjects*  
(Introductory courses or preliminary specialization.)

	Sem. I	Sem. II
Foreign Languages and Literatures, if elected for a major or minor .....	3 cr.	3 cr.
Social Science, if elected for a major or minor.....	3-6 cr.	3-6 cr.
Art, Literature, Mathematics, Music, Philosophy, Psychology, Religion, if elected for a major or minor.....	3-6 cr.	3-6 cr.
Natural Science, if elected for a major or minor.....	4-10 cr.	4-10 cr.

4. *Enough electives in Sophomore or B Courses to make up a total of at least 60 credits by the close of the Sophomore Year*

*Foreign Language Requirements*—Every student is required to complete, in freshman and sophomore years, 6 to 18 credits: 6 credits in the language pursued in high school, if 3 or more units of entrance or its equivalent are presented; 12 credits, if only 2 units of entrance are presented; 18 credits, the completion of 6 of which may be postponed to the junior year, if only 1 or no unit of entrance is presented.

No credit toward graduation will be granted for less than a full year's work in a beginning language. Neither can the language requirement be met by offering two different languages.

*Social Science Requirements*—6 credits in Economics, History, Political Science, or Sociology are required; 12 credits, including 6 credits in History, if no entrance unit in History is presented.

*Natural Science Requirements*—8 credits are required in one of the following subjects: Botany, Chemistry, Geology, Physics, or Zoology.

*Postponement of Sophomore Credits*—The subjects named above must be completed before the beginning of the junior year, except that a sophomore student of Fine Arts, with the permission of his adviser, may postpone six credit hours of History or Psychology to the junior year; any other sophomore student, with the permission of his adviser and the Committee on Scholarship, may defer not more than six credits of prescribed work to the junior year, provided this work does not conflict with prerequisites to a double major.

## II. THE SENIOR COLLEGE CURRICULUM

(Junior and Senior Years)

1. *Major Subject*—Each student selects some one subject of study as his major not later than the beginning of his sophomore year. In his major department he completes courses totaling not fewer than 24 credits, or more than 48 credits, all but ten of which must be courses marked C or D (courses not open to freshmen and sophomores). In the departmental statements under Courses of Instruction the specific require-



ments for a major and minor are outlined. Likewise, the approved related minors from which each student elects are there published.

2. *Minor Subject*—If a student does not choose a major of 48 credits, he may select from one or two approved related departments courses totaling not fewer than 12 nor more than 24 credits, of which at least 6 and 14 respectively must be courses marked C or D.

3. *Choice in Major or Minor Subjects*—Group work in the field of specialization may consist of a major of 48 credits; one major of 24 and a second major of 24 credits; a major of 36 and a minor of 12 credits; and a major of 24 and two minors of 12 credits each.

4. *Credits of C and D courses in Major and Minor Subjects*—At least a total of 40 credits of C and D courses are to be offered for graduation. Only sophomore credits of introductory courses may apply as prerequisites to major and minor subjects.

5. *Electives*—In addition to the work required above, sufficient electives are chosen to make a total of 124 credits in order to obtain the degree of Bachelor of Arts.

No credit is allowed for certain subjects unless pursued throughout the year, as announced. For example, in order to secure any credit in a beginning course in foreign language, a full year's work must be completed.

Electives may be taken in any department of the College of Liberal Arts during junior and senior years. These electives may include certain courses in Art, Business Management, Education, Engineering, Home Economics, Industrial Arts, and Music. Certain courses may also be taken during junior and senior years in the School of Law. The total of elective credits allowed in Engineering courses may not exceed 24 hours. Credit to the extent of three hours is allowed for applied music (piano, voice, etc.) after Music 5 (Harmony) has been completed. For every additional hour of applied music the student must elect an equal number of hours of theoretical music. The total amount of credit in music may not exceed 12 hours.

6. *Bachelor's Thesis*—A bachelor's thesis is not generally required. Students of high standing, however, are encouraged to write theses in connection with their major studies. Credit toward the degree is given for thesis work only as part of the work in a thesis course for which the student is registered, and when such thesis is presented in prescribed form and duly approved by the head of the department in which it is written.

7. The schedule of courses of juniors and seniors must have the written approval of the adviser under whose guidance the student is doing his major work. Not only the grouped work, but also all electives are chosen with the advice and approval of the major professor.

The Department of Chemistry acts as adviser for *pre-dental*, *pre-medical*, and *pre-nursing* students; the Department of Social Science, for *pre-law* students; the Department of English Language and Literature, for students preparing for work in *library* and *journalism*.



## PRE-PROFESSIONAL PROGRAMS

The entrance requirements to these courses are those of the College of Liberal Arts. The college requirements consist of 60 credits and 60 quality points.

*Pre-Legal Program*—Two years of work in the College of Liberal Arts of this University or of an approved college are necessary for admission to the School of Law. (See Part VI.) Students who take these preliminary years in this University are to conform to the regular requirements for freshmen and sophomores and to take such additional courses as may be suggested by the Department of Social Science.

*Pre-Medical Program*—A two-year course preparing for the study of medicine is offered under the direction of the Department of Chemistry. This course follows the requirements of the American Medical Association and the Association of American Medical Colleges for entrance to all class A medical schools, except those requiring a degree for entrance.

*Preparation for Dentistry and Nursing*—For preliminary requirements see under the Department of Chemistry.

## COMBINED PROGRAMS

*Liberal Arts-Professional Courses*—Students may do the entire work of their senior year in the School of Law of this University, or elsewhere in approved schools of *medicine* or *journalism* and receive the degree of Bachelor of Arts from this University under the following conditions:

(1) The junior year is to be completed in the College of Liberal Arts at this University. (2) The program selected and the school in which the work is to be completed must be recorded with the Registrar upon a blank furnished by him on or before December first. (3) All prescribed subjects in preparation for above schools, inclusive of any group requirements of this University, must be met before the student enters the professional school. (4) All requirements regarding the major subject are to be satisfied before the bachelor's degree is granted. (5) An application for graduation must be made and the usual graduation fee paid.

An official transcript of the year's work (30 semester hours or its equivalent), must be sent to the registrar at the close of the year. Upon receipt of such transcript the degree of Bachelor of Arts may be granted as if the work had been completed in residence in this University.

For the three-year program preparing for *Law*, see the Department of Social Science; for the three-year program preparing for *Medicine*; see the Department of Chemistry; for the three-year program preparing for *Journalism*, see the Department of English Language and Literature.

*Six-Year Combined Liberal Arts-Law Program*—A student may obtain in six years both the Bachelor of Arts and the Bachelor of Laws degrees. The program requires the completion of three full years of academic work in the Department of Social Science or in the Department of Business Management (*Business-Law Program*), before the course in the School of Law is begun. For approved outlines of this Arts-Law pro-



gram, see respectively the Department of Social Science and the Department of Business Management.

A student who has been in residence at this University for his junior year, and has been careful to confine himself to the prescribed subjects and group requirements during his three years in the College of Liberal Arts, and has secured 98 credits and 98 quality points may be given the degree of Bachelor of Arts upon passing the prescribed examinations for the entire first year law work. He may then complete the requirements for the degree of Bachelor of Laws by two years of additional work in the School of Law.

The entrance requirements for this program are those of the College of Liberal Arts. The A.B. degree is granted upon the joint recommendation of the faculties of the College of Liberal Arts and of the School of Law at the end of the first year of Law, the LL.B. upon the recommendation of the faculty of the School of Law at the end of the third year of Law.

*Five-Year Combined Liberal Arts and Social Work Program*—There is an increasing call today for the following forms of social service: Work of charity organizations and of associated charities; work in social settlements; work in community centers and in playgrounds; work in prisons, reformatories, and other punitive or corrective institutions; work in homes and institutions for the defective and dependent; work in probation and other courts; child welfare work; medical or educational social work; welfare work in industrial and mercantile establishments; work of civic organizations.

The University offers a curriculum in Social Science (see under the Department of Social Science) which leads, at the end of the fourth year, to the degree of Bachelor of Arts, conferred upon recommendation of the faculty of the College of Liberal Arts. The work of the fifth year is secured in an approved School of Social Work and leads, at the end of that year, to appropriate certificates in social work.

The entrance requirements for this program are the same as those for the College of Liberal Arts; the college requirements toward the degree of Bachelor of Arts are 124 credits and 124 quality points.

*Preparation for Library Science*—See the Department of English Language and Literature.

### THE BACHELOR OF SCIENCE CURRICULUM

The degree of Bachelor of Science of the College of Liberal Arts is offered only in the Department of Engineering, with a major respectively in civil, mechanical, and electrical engineering.

The curriculum for the first year is uniform in all branches of engineering. The courses given during this time—mathematics, mechanics, general inorganic chemistry, and engineering drawing—are regarded as a common foundation for engineering. The specialization of the curriculum in the various divisions of engineering is confined to the last three years.



Since the courses given in the various divisions of engineering vary to some extent in the second year, and diverge more and more in later years, the student who wishes to transfer from one division to another should do so at the beginning of his second year.

For an outline of the different programs in engineering, see the Department of Engineering.

### THE BACHELOR OF MUSIC CURRICULUM

The degree of Bachelor of Music of the College of Liberal Arts is offered only in the Department of Fine Arts, with a major respectively in organ, piano, violin (or other orchestral instruments), voice, and theory and composition.

The freshmen courses, such as sight-singing, ear training, and harmony, are a foundation for all future music study. The sophomore courses are much the same in most of the curricula; specialization in Music may begin in this year.

At least thirty credits of the required 124 should be taken in cultural subjects during the Freshman and Sophomore years so that full time can be given to the chosen field of specialization in Music during the junior and senior years.

For an outline of the different programs in Music, see the section of Music under the Department of Fine Arts.

## COURSES, CURRICULA, AND PROGRAMS

For the convenience of the student who is making out his schedule of studies, courses, curricula, and programs are arranged alphabetically as follows:

- Art, page 83.
- Botany, page 40.
- Business—Law, four-year program, page 50.
- Business—Law, combined six-year program, page 50.
- Business Management, page 46.
- Chemistry, page 55.
- Church or Institutional Secretary, Curriculum, page 125.
- Commercial Teachers Course, Secondary Schools, page 49.
- Economics, page 130.
- Education, page 59.
- Engineering:
  - Civil, pages 64 and 68.
  - Electrical, pages 65 and 71.
  - Mechanical, pages 67 and 73.
- English Language and Literature, page 78.
- Foreign Language and Literatures, page 102.
- French Language and Literature, page 102.
- Freshman Courses, page 39.
- Geology, Geography, page 111.
- German Language and Literature, page 104.
- Greek, page 111.
- Health and Physical Education, page 113.
- History, page 131.
- Home Economics, Curriculum for Teachers, page 119.
- Industrial Arts, page 77.
- Journalism, preparation for, page 78.
- Latin Language and Literature, page 107.
- Liberal Arts—Law, four-year program, pages 50 and 150.
- Liberal Arts—Law, combined six-year program, pages 50 and 150.
- Liberal Arts—Social Work, combined five-year program, pages 36 and 129.
- Library Science, preparation for, page 79.
- Mathematics, page 122.
- Music, page 86.
- Organ, pages 87 and 90.
- Orientation, page 39.
- Philosophy, page 128.
- Physical Education:
  - Men, page 113.
  - Women, page 117.
- Physics, page 123.
- Piano, pages 87 and 89.
- Political Science, page 133.
- Pre-Dental, page 46.
- Pre-Legal, page 129.
- Pre-Medical, page 44.
- Pre-Nursing, page 46.
- Psychology, page 62.
- Public School Art, page 83.
- Public School Music, page 96.
- Public Speaking, page 82.
- Religion, page 125.
- Secretarial Training, Curriculum, page 50.
- Social Science, page 129.
- Social Work program, page 129.
- Sociology, page 135.
- Spanish Language and Literature, page 110.
- Theory and Composition, Music, pages 95 and 98.
- Violin or Orchestral Instruments, pages 91 and 92.
- Voice, pages 93 and 94.
- Zoology, page 43.



## CLASSIFICATION OF COURSES

To guide students in the proper sequence of subjects pursued in each department, courses are marked A, B, C, or D. The letter following the course number indicates, in general, its grade, as follows:

A—Such freshmen courses as are equivalent to work taken in high school. Seniors enrolled in these courses will receive only one-half credit; juniors only three-fourths credit.

B—More advanced courses: Open to freshmen and sophomores, requiring prerequisite high school courses in the same or similar subjects. Seniors enrolled in these courses will receive only three-fourths credit.

C—Courses requiring at least one year of college work in the same or kindred subjects, and regularly following after B courses.

D—Advanced courses: Requiring at least two years of prerequisite college training, regularly following after C courses. Only students classified as juniors or seniors may enroll in these courses.

Courses numbered from 1 to 50 are A courses, from 51 to 100 B courses, from 101 to 150 C courses, and from 151 to 199 D courses.

Yr. indicates a continuous course extending through two semesters. A final report will be made by the instructor at the end of each half-year.

## ORIENTATION COURSES

DEAN KROENCKE, *Adviser*

1-2. SURVEY COURSE IN SOCIAL SCIENCE.—(A) Yr. Each semester. Cr. 3.

A cooperative survey course in social science consisting of lectures, discussions, and recitations covering topics from the fields of economics, education, history, philosophy, political science, and sociology.

———, Bauer, Kroencke, Pinto.

3-4. SURVEY COURSE IN NATURAL SCIENCE.—(A) Yr. Each semester. Cr. 3.

A cooperative survey course in natural science, consisting of lectures, demonstrations, and recitations. Departments cooperating are: Botany, Chemistry, Geology, Mathematics, Physics, and Zoology. Some of the topics covered are: The nature of matter and energy, the nature of chemical processes, the plant kingdom, the animal kingdom, and human structure and development.

Kaufmann, Fuller, Meyer, Copp, Roller.

5. FRESHMAN LECTURE I: THE PSYCHOLOGY OF THINKING AND STUDYING.—(A) Sem. 1. Cr. 1.

The chief topics discussed are: The processes of thinking, learning, studying, and note-taking. Other topics considered are: Collegiate life and work, the field of knowledge, and choosing a major.

Robinson.

6. FRESHMAN LECTURE II: USE OF THE LIBRARY.—(A) Sem. 2. Cr. 1.

This course gives instruction and practice, through assignments and



reports, in the use of the card catalog, decimal classification, periodical indexes, and reference books. Some topics covered are: A rapid survey of bibliography, great books, and sources for borrowing books and pamphlet material.

Robinson.

7. SURVEY COURSE IN MUSIC APPRECIATION.—(A) Sem. 1. Cr. 2.

Such topics are considered as the message of music; the courteous listener; music memory; harmonic listening; rhythm; melody; harmony; the orchestra; program music; correlation of music with other subjects. Lectures cover such subjects as music of ancient cultured nations; piano and organ; opera and oratorio; Bach, Handel, Haydn, Mozart, Schubert, Mendelssohn, and Wagner; music in America. The course is supplemented by the use of suitable records.

Hobbs.

8. SURVEY COURSE IN ART APPRECIATION.—(A) Sem. 2. Cr. 2.

A study of color, balance, line, composition; a rapid survey of the history of art from the beginning to the present day.

Hooven.

## THE DEPARTMENT OF BIOLOGY

A. BOTANY

—— and Mr. KAUFMANN

The courses in botany provide a means of obtaining both a general and a detailed knowledge of plants. Courses 51 and 52 are of considerable value to *all* students. These courses open the whole field of botanical science for a knowledge of fundamental biological laws, facts, and problems, and show man's great dependence on plants for food, clothing, shelter, medicine, and enjoyment. They form the basis for all advanced courses and represent the minimum of botanical training for teachers of high school botany. The department also establishes a foundation for practical work in such branches as pharmacy, bacteriology, medicine, general agriculture, forestry, horticulture, landscape gardening, vegetable gardening, etc. Finally, it prepares students for graduate work and research.

The material equipment of the department is being continually improved and extended. The location of the University in the lakes and dunes region of northwestern Indiana favors the department with a great variety of native plants, growing in water, sand, swamps, forests, and in the open prairies. Cranberry, pitcher-plant, cactus, pines, bog moss, and other plants requiring more or less special environmental conditions are found in the immediate vicinity.

Major: Twenty-four credit hours, beginning with Botany 51-52 as the basic course, followed by a logical sequence of courses. No credit toward graduation will be allowed for less than the entire year's work in the basic courses.

Minor: Students will elect Botany 51, 52, 101 or 119, and preferably 131.



The student is advised to elect German or French in his freshman year.

## COURSES IN BOTANY

## 51. GENERAL BOTANY.—(B) Sem. 1. 3+6, Cr. 5.\*

A general introductory course, prerequisite to all other courses in botany, considering the fundamental principles of botany, especially of the morphology and physiology of plants, and including references to their economic importance. A part of the laboratory work consists of a study of type forms representing all major plant groups.

*Laboratory fee \$4.00; deposit \$2.00.*

Kaufmann and ———.

## 52. GENERAL MORPHOLOGY AND CLASSIFICATION OF PLANTS.—(B) Sem. 2. 3+6, Cr. 5.

The collection, identification, classification, and preservation of plants. The entire plant kingdom is considered, but particular emphasis is placed upon the external morphology and classification of the ferns and seed plants, especially those of economic importance, including medicinal plants, farm crops, truck crops, forest trees, house and garden plants, ornamental trees and shrubs.

Prerequisite: Botany 51.

*Laboratory fee \$3.00; deposit \$2.00.*

Kaufmann.

## 102. PLANT ANATOMY.—(C) Sem. 2. 2+6, Cr. 4.

The structure, growth, and development of vascular plants in relation to function are considered. This course particularly furnishes the proper basis for a study of plant physiology, diseases of seed plants, and a further study of morphology. Since a large amount of the material is histological in nature, and since the laboratory materials are drawn largely from medicinal and other economic plants, the course is of special value to pharmacy students.

Prerequisite: Botany 51.

*Laboratory fee \$3.00; deposit \$2.00.*

## 103. MICROSCOPICAL EXAMINATION OF FIBERS, FOODS, AND DRUGS.—(C) Sem. 1. 1+3, Cr. 2.

Calibration of the microscope, microscopic measurements, drawing microscopic objects to scale. Study of the physical and chemical characteristics of commercial fibers, such as linen, silk, wool, hemp, sisal, of foods and drugs, including starches, various crystals, tannins, gums, fats, oils, spices, powders, and their adulterants.

Prerequisite: Botany 102.

*Laboratory fee \$3.00; deposit \$2.00.*

## 109. MORPHOLOGY OF THE ALGAE AND FUNGI.—(C) Sem. 2. 2+6, Cr. 4.

Structure, reproduction, and economic importance.

Prerequisite: Botany 51.

*Laboratory fee \$3.00; deposit \$2.00.*

Kaufmann.

\*3 + 6 indicates 3 lectures and 2 laboratory periods of 3 hours each.

113. MORPHOLOGY OF THE BRYOPHYTES AND PTERIDOPHYTES.—  
(C) Sem. 1. 2+6, Cr. 4.

The habitat, structure, and life history of the liverworts, mosses, ferns, and fern allies.

Prerequisite: Botany 51.

Laboratory fee \$3.00; deposit \$2.00.

117. MORPHOLOGY OF GYMNOSPERMS.—(C) Sem. 1. 2+6, Cr. 4.

This course consists chiefly of a study of the development of the gametophytes and young sporophytes.

Prerequisite: Botany 51.

Laboratory fee \$3.00; deposit \$2.00.

Kaufmann.

120. MORPHOLOGY OF ANGIOSPERMS.—(C) Sem. 2, 2+6, Cr. 4.

A general survey of seed plants, including details of development and microscopic structure of leaf, stem, and root. Particular attention is given to the development of the flower and fruit.

Prerequisite: Botany 51.

Laboratory fee \$3.00; deposit \$2.00.

125. BACTERIOLOGY.—(C) Sem. 1. 2+6, Cr. 4.

A course in general bacteriology and the general biology of microorganisms, including yeasts and molds. Preparation of culture media, methods of isolation and identification, sterilization, inoculation, infection, immunity, toxins and other fundamentals of the subject.

Prerequisite: Botany 51, or Zoology 51; Chemistry 51.

Laboratory fee \$4.00; deposit \$2.00.

Kaufmann.

132. PLANT PHYSIOLOGY.—(C) Sem. 2. 2+6, Cr. 4.

Fundamental physiology of the cell, protoplasmic membranes, osmotic phenomena and metabolism, with special reference to seed plants.

Prerequisite: Botany 102, and Chemistry 51.

Laboratory fee \$4.00; deposit \$2.00.

Kaufmann.

142. LOCAL FLORA.—(C) Sem. 2. 1+6, Cr. 3.

Assignments covering particular areas or a particular group or groups of plants. Written reports on assigned subjects are required at regular intervals

Prerequisite: Botany 51.

Laboratory fee \$3.00; deposit \$2.00.

146. GENETICS.—(C) Sem. 2. 2+6, Cr. 4.

The fundamental principles of heredity and variation; the physical basis of heredity, cytoplasmic inheritance, Mendelian interpretations of the facts of inheritance, pure lines, inbreeding and cross-breeding, mutation, factor linkage, the determination of sex, quantitative inheritance, with suggestions regarding plant and animal improvement. Laboratory studies on hybrid plant materials, and simple breeding experiments on the fruit fly.

Prerequisite: Botany 52 and Zoology 51.

Laboratory fee \$3.00; deposit \$2.00.

Alternates with Botany 132.

(Omitted 1929-30.)



## 172. BOTANICAL MICROTECHNIQUE.—(D) Sem. 2. 1+9, Cr. 4.

Principles and methods of killing, fixing, embedding, sectioning, staining, mounting, drawing, etc. Most attention is given to the paraffin process.

Prerequisites: Botany 102 and 120, and Chemistry 51.

*Laboratory fee* \$5.00; *deposit* \$2.00.

(Omitted 1929-30.)

## 191. THE TEACHING OF BOTANY.—(D) Sem. 1 or 2. 2+0, Cr. 2.

A teacher's course. Discussion of the aims and methods of teaching botany in secondary schools. Suggestions on and practice in collection, preservation, and preparation of materials for class use.

Prerequisite: Botany 52.

*Laboratory fee* \$1.00; *deposit* \$2.00.

(Given upon sufficient demand.)

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B. ZOOLOGY

Work in this section is designed (1) to give the student an appreciation of the animal life with which he comes in daily contact; (2) to provide the necessary training for teachers of zoology; (3) to prepare students who wish to enter the medical, dental, and nurses' training schools; and (4) to prepare students for graduate work in zoology.

Major: Twenty-four credit hours are required, exclusive of credits received in course 191.

Minor: Twelve credit hours are required. The minor includes Zoology 51, 64, and one other course, which may be elected.

## COURSES IN ZOOLOGY

## 51. GENERAL ZOOLOGY.—(B) Sem. 1. 3+6, Cr. 5.

An introductory course in zoology, considering the principles of zoology and covering a brief survey of the animal kingdom. The laboratory work consists of the dissection and study of the digestive, urinogenital, respiratory, skeletal, and other systems of the frog, illustrating the principles of zoology, and introductory work in histology, and embryology, followed by brief studies of type animals belonging to the invertebrates.

*Laboratory fee* \$6.00; *deposit* \$2.00.

## 54. ELEMENTARY PHYSIOLOGY.—(B) Sem. 2. 2+3, Cr. 3.

This course is especially designed for the needs of the pharmacy student.

*Laboratory fee* \$4.00; *deposit* \$2.00.

## 62. ANATOMY AND PHYSIOLOGY.—(B) Sem. 2. 3+6, Cr. 5.

A course specially designed for students desiring to teach physiology in secondary schools, and for students preparing for medicine or nursing.

Prerequisite: Zoology 51.

*Laboratory fee* \$5.00; *deposit* \$2.00.

## 64. INVERTEBRATE ZOOLOGY.—(B) Sem. 2. 3+6, Cr. 5.

A course in the morphology of invertebrates. Lecture, discussion, collateral reading, and laboratory dissection of types representative of the various phyla.

Prerequisite: Zoology 51.

Laboratory fee \$7.00; deposit \$2.00.

## 105. VERTEBRATE ZOOLOGY.—(C) Sem. 1. 2+6, Cr. 4.

A comparative study of the morphology of vertebrates. Lecture, discussion, collateral reading, and laboratory dissection of class types of vertebrates.

Prerequisite: Zoology 51.

Laboratory fee \$7.00; deposit \$2.00.

## 111. SYSTEMATIC ZOOLOGY.—(C) Sem. 1. 2+6, Cr. 4.

Collection, identification, and classification of native animal species with special emphasis on the class Insecta. Lectures and discussions will deal largely with the ecological phases of animal life, supplemented by a general survey of anatomical characteristics useful in identification; methods of collecting and preserving; the use of keys. Each student will be required to collect, preserve, and identify, according to family, at least 250 different species. Field trips.

Prerequisites: Zoology 51.

Laboratory fee \$3.00; deposit \$2.00.

(Given upon sufficient demand.)

## 142. VERTEBRATE EMBRYOLOGY.—(C) Sem. 2. 3+6, Cr. 5.

Lectures and recitations on vertebrate embryology in general. The laboratory work deals especially with the embryonic development of the chick and the pig.

Prerequisite: Zoology 105.

Laboratory fee \$5.00; deposit \$2.00.

## 191. THE TEACHING OF ZOOLOGY.—(D) Sem. 1. 1+2, Cr. 2.

A teacher's course. Discussion of the aims and methods of teaching zoology in secondary schools. Discussion of outlines for courses, texts, and laboratory manuals. Consideration of the equipment of the laboratory, and of the materials to be used, with suggestions on and practice in the collection, preservation, and preparation of materials.

Prerequisite: 10 credits in Zoology.

Laboratory fee \$1.00; deposit \$2.00.

(Given upon sufficient demand.)

## RELATED COURSES IN OTHER DEPARTMENTS

Botany 144. Genetics.

## PREPARATION FOR MEDICINE

ASSISTANT PROFESSOR THRUN, *Adviser*

Students desiring to prepare themselves for further studies in medicine will do well to select their professional school early in their preparatory career, so that their particular needs can be arranged for by their



adviser. This procedure will avoid certain difficulties due to varying entrance requirements of medical schools.

Freshmen should elect German or French.

The two-year course outlined below is designed to meet the requirements of most of the class A medical schools which require two years of preparation.

The three-year courses outlined below are recommended because of the general tendency of medical schools to require more than two years of preparation. The student completing the courses outlined or their equivalent will receive a degree of Bachelor of Arts at the completion of his first year in medicine, provided he has complied with the other conditions given on page —.

### TWO-YEAR COURSE

#### Freshman Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Eng.	1. Freshman Composition ...	3	Eng.	2. Freshman Composition ...	3
	German or French .....	3		German or French .....	3
Chem.	51. General Chemistry .....	4	Chem.	62. Qualitative Analysis .....	2
Zool.	51. General Zoology .....	5	Chem.	52. Inorganic Chemistry .....	4
Orient.	5. Freshmen Lecture I .....	1	Psych.	116. Adolescent Psychology ...	3
	—		Orient.	6. Freshmen Lecture II ....	1
		16			16

#### Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Chem.	102. Organic Chemistry .....	6		German or French .....	3
	German or French .....	3	Chem.	106 or 107. Quantitative Analysis* or	
Phys.	51. General Physics* or				
Phys.	61. Technical Physics .....	4	Chem.	140. Biochemistry .....	4
Zool.	105. Vertebrate Zoology .....	4	Phys.	52. General Physics or	
	—		Phys.	62. Technical Physics .....	4
		17	Zool.	142. Vertebrate Embryology* ..	5
					16

### THREE-YEAR COURSE

#### Freshman Year

See Junior College curriculum. German or French should be elected.

#### Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
	German or French .....	3		German or French .....	3
Chem.	51. General Chemistry .....	4	Chem.	52. Inorganic Chemistry .....	4
Phys.	51. General Physics or		Chem.	62. Qualitative Analysis .....	2
Phys.	61. Technical Physics .....	4	Phys.	52. General Physics* or	
Zool.	51. General Zoology .....	5	Phys.	62. Technical Physics .....	4
	—		Zool.	64. Invertebrate Zoology or	
		16		Elective .....	5 or 3
					18 or 16

\*Required in some medical schools.

## Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Elective in English	.....	2-3	Elective in English	.....	2-3
Elective in Social Science.		3	Elective in Social Science.		3
Chem. 102. Organic Chemistry	.....	6	Chem. 106 or 107. Quantitative Analysis* or		
Zool. 105. Vertebrate Zoology	.....	4			
		—	Chem. 140. Biochemistry	.....	4
		15-16	Zool. 142. Vertebrate Embryology* or		
			Elective	.....	5 or 3
					—
					16-18

## ALTERNATIVE THREE-YEAR COURSE

Students with advanced standing or those who have definitely decided upon a medical career are advised to be guided in their selection of courses by the outline given below.

	Cr.
English 1, 2, and two electives.....	10-12
German or French, two years.....	12
Chemistry 51, 52, 62, 102, 106 or 107, or 140.....	20
Zoology 51, 105, 142.....	14
Physics 51 and 52, or 61 and 62.....	8
Psychology 51 or Education 52.....	3-6
Social Science .....	at least 6
Electives to make a total of.....	94

Recommended electives are: Zool. 62, 64; Bot. 125; Math. 51 and 60; German 51.

## PREPARATION FOR DENTISTRY

Students preparing to enter dental colleges will take the Freshman year of the two-year pre-medical course. If one unit of high school physics has not been presented for admission, physics will be substituted for Zoology 51 and Psychology 52. The required general zoology can be taken during the following summer session or school year. Special needs will be considered by the adviser.

## PREPARATION FOR NURSING

Students preparing to enter training schools for nurses will be guided by their adviser in following a curriculum best suited for the school of their choice.

## THE DEPARTMENT OF BUSINESS MANAGEMENT

ASSOCIATE PROFESSOR LYNN, MR. ZIMMERMANN, and ———

## GENERAL INFORMATION

*Introduction*—Business Management has gradually become a profession. Its task has constantly increased in difficulty, responsibility, and complexity until today it touches all the sciences. It calls to its service men and women with tact, ideals, the highest scientific qualifications, and a strong capacity for organization and leadership.

*Foundation for Business Management*—The curricula outlined in the Department of Business Management require as a foundation the equivalent

\*Required in some medical schools.



lent of junior standing. The required courses offered in other departments are: Mathematics of Finance, Geography, and Economics.

*Accountancy*—It is not the intention to train all students to become professional accountants. But an intensive study of the subject affords an opportunity to learn the fundamental principles and practices of business. Accountancy has become one of the leading professions and is on an equal basis with the established professions as regards opportunity for service and remuneration. A mastery of the courses in accounting enables students to secure and hold worth while positions; it also equips them to take the examinations set by the State Boards and the American Institute of Accountants for the certificate of Certified Public Accountant.

*Industrial Engineering*—Preparation for the profession of industrial engineering is obtained by a combination of Engineering subjects with Business Management. There are three recognized divisions of industrial engineering, namely: (1) Organization, financing, location, and appraisal of industries: (2) Plant arrangement, construction, and equipment, and (3) Plant management and operation. Consult the head of this Department for further information concerning a program of study leading to qualifications for industrial engineering.

*Law and Business Management*—Business activity in its varied forms touches the subject of law directly and indirectly. The Four-Year Business-Law Curriculum provides a major in law consisting of at least twenty-four credits. The Six-Year Business-Law Curriculum is recommended for those who desire to take a major in Business Management for an A.B. degree and later the Law course which leads to the LL.B. degree.

*Training for Commercial Teaching*—A curriculum has been prepared for those who desire to teach commercial subjects in secondary schools. The plan provides for a combination of Education courses with Business Management in order to satisfy the requirements of the various State Boards of Education for the certification of commercial teachers.

*Secretarial Training*—This curriculum should be of special interest to women, because women trained in secretarial work are in great demand. This training will enable them to enter social service and educational work, banking, insurance, and many other fields of business.

*Insurance and Real Estate*—Students interested in training for the career of professional underwriter, fire insurance, and real estate, should consult the head of the Department for details concerning a plan of study.

*Business Observation Trips*—Valparaiso University is fortunate in being located in one of America's great centers of business life, which includes Chicago, Indiana Harbor, Hammond, Gary, LaPorte, and South Bend. Thus there is ample opportunity for trips to the great industrial plants of this area.

*Positions*—The Department does not assume responsibility for securing positions for its alumni, but it does extend every possible aid toward helping those who have made an excellent scholastic record. Those making the highest scholastic attainments are the first to receive consideration and assistance from the Department in securing a position.



Major: A major in Business Management, exclusive of courses 41 and 42, will ordinarily require the following courses: 51, 52, 103 or 104, 106, 121, 142, 131, and 132. Prospective commercial teachers will also take course 191.

Minor: A minor exclusive of 41 and 42, will ordinarily include one of 103, or 104, 51, 52, 131, 132 and 106, or 121, or 142.

### THE CURRICULUM IN BUSINESS MANAGEMENT

(Leading to the degree of Bachelor of Arts)

#### Freshman Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
	Freshman Constant .....	14		Freshman Constant .....	14
B.M.	41 Elementary Accounting ..	2	B.M.	42 Elementary Accounting ..	2
		—			—
		16			16

#### Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
	Sophomore Constant .....	5		Sophomore Constant .....	5
	Science .....	4-5		Science .....	4-5
B.M.	51 Business Management ....	3	B.M.	52 Business Communication...	3
Econ.	51 Principles of Economics ..	3	Econ.	52 Principles of Economics ..	3
		—			—
		15 or 16			15 or 16

#### Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
B.M.	103 Managerial Use of Records	3	B.M.	106 Business Finance* or	
B.M.	107 Business Statistics* or		B.M.	142 Industrial Management or	
B.M.	121 Marketing Principles ....	3	B.M.	104 Cost Accounting .....	3
Econ.	151 Money and Banking or		B.M.	122 Sales Administration ....	3
B.M.	51 Business Management* or		B.M.	132 Business Law* or	
B.M.	131 Business Law .....	3	B.M.	152 Business Management and	
Econ.	101 Economic History of			Policies .....	3
	U. S.* or		Econ.	162 Investments .....	3
Econ.	141 Labor Problems .....	3	Geol.	56 Economic Geography ....	3
	Elective .....	4		Elective .....	1
		—			—
		16			16

\*One course to be selected.



## Senior Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
B.M.	131 Business Law .....	3	B.M.	152 Business Management and Policies* or	
B.M.	153 Principles of Auditing* or		B.M.	132 Business Law .....	3
B.M.	155 Advanced Accounting ....	3	B.M.	156 Advanced Accounting* or	
Econ.	151 Money and Banking or		B.M.	158 Special Problems in Accounting or	
Econ.	141 Labor Problems* or		B.M.	168 Business Finance Problems	3
Econ.	101 Economic History of U. S.	3	B.M.	172 Problems in Marketing* or	
Engl.	101 Public Speaking .....	3	B.M.	122 Sales Administration ....	3
		—	Econ.	162 Investments* or	
		15	B.M.	166 Financial Analysis, Credits and Collections .....	3
				Elective .....	3-4
					15 or 16

THE CURRICULUM FOR COMMERCIAL TEACHERS IN  
SECONDARY SCHOOLS

The work of the first two years in the Commercial Teacher Training Course is the same as that prescribed for Business Management.

## Junior Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
B.M.	103 Managerial Use of Records* or		B.M.	106 Business Finance* or	
B.M.	107 Business Statistics .....	3	B.M.	142 Industrial Management or	
B.M.	121 Principles of Marketing ..	3	B.M.	104 Cost Accounting .....	3
Psych.	51 General Psychology .....	3	B.M.	122 Sales Administration* or	
Ed.	113 General History of Education .....	3	B.M.	172 Problems in Marketing ..	3
Econ.	101 Economic History of U. S.	3	Ed.	52 Educational Psychology ..	3
B.M.	2 Beginning Typewriting ...	1	Ed.	119 Secondary Education ....	3
		16	Geol.	56 Economic Geography ....	3
			B.M.	3 Advanced Typewriting ...	1
					16

## Senior Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
B.M.	131 Business Law .....	3	B.M.	152 Business Management and Policies* or	
B.M.	153 Principles of Auditing* or		B.M.	132 Business Law .....	3
B.M.	155 Advanced Accounting ....	3	B.M.	156 Advanced Accounting* or	
Econ.	151 Money and Banking ....	3	B.M.	158 Special Accounting Problems or	
Ed.	151 Principles of Teaching ...	3	B.M.	166 Financial Analysis, Credits and Collections .....	3
B.M.	191 Teaching of Commercial Subjects .....	3	Econ.	162 Investments .....	3
B.M.	4 Beginning Stenography ..	1	Ed.	191 Supervised Teaching ....	3
		—	B.M.	5 Advanced Stenography and Secretarial Training ....	2
		16		Elective .....	2
					16

\*One course to be selected.

## THE CURRICULUM FOR SECRETARIAL TRAINING

The work of the first two years is practically the same as that prescribed for the Business Management curriculum. Elementary Accounting, Penmanship, Typewriting, Stenography, Advanced Stenography, and Secretarial training are open to freshmen.

## Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Foreign Language .....		3	Foreign Language .....		3
Engl. 61	Exposition .....	2	Engl. 62	Narration .....	2
Psych. 51	General Psychology .....	3	B.M. 106	Business Finance* or	
Pol. Sc. 51	Introduction to Political		B.M. 142	Industrial Management ..	3
	Science .....	2	B.M. 122	Sales Administration* or	
B.M. 107	Business Statistics* or		B.M. 172	Problems in Marketing ..	3
B.M. 121	Principles of Marketing ..	3	B.M. 3	Advanced Typewriting ...	1
B.M. 2	Beginning Typewriting ...	1	Elective .....		3-4
	Elective .....	2			—
		—			15 or 16
		16			

## Senior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
B.M. 131	Business Law .....	3	B.M. 152	Business Management and	
Econ. 151	Money and Banking .....	3		Policies* or	
Econ. 141	Labor Problems* or		B.M. 132	Business Law .....	3
Econ. 101	Economic History of U. S.	3	B.M. 172	Problems in Marketing* or	
Engl. 103	Argumentation .....	3	B.M. 122	Sales Administration ....	3
B.M. 4	Beginning Stenography ...	1	Econ. 162	Investments* or	
	Elective .....	3	B.M. 166	Financial Analysis, Credits	
		—		and Collections .....	3
		16	B.M. 5	Advanced Stenography and	
				Secretarial Training ....	2
			Engl. 102	Public Speaking .....	3
				Elective .....	2
					—
					16

## BUSINESS-LAW (FOUR YEARS)

The work of the first three years is approximately the same as that which is prescribed for Business Management except some of the Law subjects should be taken in the third year. The substantive law subjects are to be selected, e.g., Contracts, Agency, Bailments and Carriers, Corporations, Bills and Notes, Sales, Persons and Domestic Relations, and Constitutional Law.

## BUSINESS-LAW (SIX YEARS)

The work of the first two years is the same as that which is prescribed for Business Management.

\*One course to be selected.



## Third Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
B.M.	103 Managerial Use of Records* or		B.M.	152 Business Management and Policies .....	3
B.M.	107 Business Statistics .....	3	B.M.	166 Financial Analysis, Credits and Collections .....	3
B.M.	121 Marketing Principles* or		B.M.	172 Problems in Marketing* or	
Econ.	141 Labor Problems .....	3	B.M.	122 Sales Administration .....	3
B.M.	51 Business Management ....	3	Econ.	162 Investments .....	3
Econ.	101 Economic History of U. S.* or			Elective .....	3
Econ.	151 Money and Banking .....	3			—
	Elective .....	3			15
		—			
		15			

## Fourth, Fifth, and Sixth Years

The regular law course as outlined in the School of Law.

## COURSES IN BUSINESS MANAGEMENT

## 1. PENMANSHIP. Cr. 0.

This course presents an opportunity for students in the Department of Business Management to improve their penmanship. It is recommended that each student take this drill until able to pass the final test set by the instructor.

Zimmerman.

## 2. BEGINNING TYPEWRITING. Each semester; 10 hours. Cr. 1.

This course is open to all students in the University who wish to acquire skill in operating the typewriter. Strongly recommended to all students. Credit withheld until Advanced Typewriting is completed.

*Typewriting fee, \$4.50.*

Zimmerman.

## 3. ADVANCED TYPEWRITING. Each semester; 10 hours. Cr. 1.

Continuation of course 2. Credit withheld until 35 words per minute test has been passed.

*Typewriting fee, \$4.50.*

Zimmerman.

## 4. BEGINNING STENOGRAPHY. Each semester; 5 hours. Cr. 1.

A thorough study and practice of Gregg shorthand. Open to all students. Credit withheld until Advanced Stenography is completed.

Zimmerman.

## 5. ADVANCED STENOGRAPHY AND SECRETARIAL TRAINING. Each semester; 5 hours. Cr. 2.

An advanced course which places special emphasis on phrasing, transcribing, correct business English, the duties of a private secretary, including mail procedure, billing, negotiable instruments, credit procedure, legal papers, filing, use of office appliances, collecting data, reports of various kinds and

\*One course to be selected.

types, literary work, business letter writing and organization of office work from the point of view of a secretary. This course is correlated with advanced typewriting.

Zimmerman.

11. COMMERCIAL DESIGN.—(C) Sem. 1. 0+3, Cr. 1.

The object of this subject is to give practical instruction in lettering and design. The study and practice embodies the latest and most approved forms and methods in plain lettering; the course also covers the fundamentals and practical side of engrossing, embossing, illuminating art border design, and resolution designing.

Zimmerman.

41. ELEMENTARY ACCOUNTING.—(B) Sem. 1. 2+2, Cr. 2.

Consideration is given to the fundamental principles of accounting through their application to single proprietorships, partnerships, and corporations. The principles are evolved by a detailed study of the accounting process, which involves recording various kinds of transactions in the books of original entry, posting to ledgers, preparation of trial balances, making, adjusting, and closing entries, the preparation of final statements, closing books, and attention to the topics of depreciation, interest, discounts, and consignments.

Lynn.

42. ELEMENTARY ACCOUNTING.—(B) Sem. 2. 2+2, Cr. 2.

Continuation of Business Management 51.

Prerequisite: B.M. 41 or its equivalent.

Lynn.

51. BUSINESS MANAGEMENT.—(B) Cr. 3.

The subject matter consists of a study of factors in plant location, organization, administration of personnel, finance, marketing, and production; it affords a survey study of the operations of a business and the application of the principles of policy, organization and procedure to business cases. Trips to a few of the great industrial plants of this region are an integral part of the course.

Lynn.

52. BUSINESS COMMUNICATION.—(B) Cr. 3.

The subject matter includes the various ways and means of business communication. Correspondence and an introduction to advertising constitutes the major portion of the course.

Lynn.

103. MANAGERIAL USE OF RECORDS.—(C) Cr. 3.

Presents an opportunity to study the application of the principles of accountancy to business administration from the executive viewpoint. The subject matter includes the definition of standards, characteristic features of records, organization for controllership accounting, statistical and budgetary control, the preparation and interpretation of financial statements, the accounting methods and procedure applied in the control of sales, purchases, and production. The practice material consists of a select group of problems. Written solution reports based on the laboratory problems and exercises are required.

Prerequisite: B.M. 42, or its equivalent.

(Omitted 1929-30.)

104. COST ACCOUNTING.—(C) Cr. 3.

This course thoroughly covers the general principles of the subject, and shows the importance of cost records as an integral part of a complete sys-



tem of records. The significance of the need of cost records in the administration and control of industrial enterprise is emphasized. Topics considered are classifications of costs, job order, and process cost accounting, accounting for materials, labor and manufacturing expense, estimating cost systems, standard costs, uniform costs, and the preparation of analytical statements.

Prerequisite: Seven credits in Accounting.

(Omitted 1929-30.)

106. BUSINESS FINANCE.—(C) Cr. 3.

This subject considers the problems of financing a private business; the ways, means, and methods of finance administration through a study of capitalization; instruments of finance, stocks, bonds, notes, short and long term financing, promotion, financial standards, business and the banks; extending credit and its effects on the financial program, budgeting and the distribution of earnings.

Prerequisite: B.M. 42 and Economics 52.

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107. BUSINESS STATISTICS.—(C) Cr. 3.

This course considers the elementary principles of statistical method, which includes collection of data, its classification and interpretation; a study of averages and their uses, ratios, percentages, correlation, business barometers, the graphic presentation of statistical results by means of charts, graphs, diagrams, and the application of the principles of statistics to business problems. The laboratory material consists of exercises and problems.

Prerequisite: B.M. 42.

Lynn.

121. PRINCIPLES OF MARKETING.—(C) Cr. 3.

The subject matter is based on a study of market forces, structures, functions, trade channels, the development of marketing methods, middlemen, the organized produce exchanges, speculation, chain stores, mail order houses, price policies, market analysis, and the coordination of market policies. Laboratory work consists of case and problem materials.

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122. SALES ADMINISTRATION.—(C) Cr. 3.

This course includes a study of the development of sales organizations, market analysis, policies, selection and training of a sales force, knowledge of goods, analysis of the personal selling process, planning for personal selling, psychological aspects of selling, the sales interview, sales methods, methods of compensating salesmen, sales conferences and conventions, survey of literature of selling, and ethics of salesmanship.

(Omitted 1929-30.)

131. BUSINESS LAW.—(C) Cr. 3.

Business law deals with the legal aspects of business administration as it applies to organization, marketing, finance, personnel, purchasing, risk, and other matters. The text and case material includes contracts, agency, negotiable instruments, corporations, partnerships, sales, personal and real property, mortgages, bailments, insurance, wills, and administration.

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## 132. BUSINESS LAW.—(C) Cr. 3.

Continuation of B.M. 131.

Prerequisite: B.M. 131, or its equivalent.

## 142. INDUSTRIAL MANAGEMENT.—(C) Cr. 3.

This course includes a survey of the literature in this field. It serves as an introduction to the subject of production. The problems of industrial management are studied by means of analysis, synthesis, standardization and records. Attention is given to the planning, scheduling, buying, receiving, storing and insuring of materials, dispatching work through the factory and the coordination of control records.

(Omitted 1929-30.)

## 152. BUSINESS MANAGEMENT AND POLICIES.—(D) Cr. 3.

A course planned to correlate the subject matter of the other courses offered in this department by the application of the principles of business to specific problems, in office management, finance, sales, purchasing, production, personnel and controllership. The use of statistics and accounting, financial and operating ratios, in business control are emphasized.

Open only to Seniors.

## 153. PRINCIPLES OF AUDITING.—(D) Cr. 3.

Treats of the application of accounting theory and practice to the preparation and procedure followed in performing the various steps in balance sheet, detailed and special audits. The laboratory material consists of problems, exercises, and questions. Consideration is given to the audit plan, the preparation of the working papers and to the content and arrangement of the accountant's report as the finished product given to the client.

Prerequisite: Ten credits in Accountancy.

(Omitted 1929-30.)

## 155. ADVANCED ACCOUNTING.—(D) Cr. 3.

An advanced course in theory and practice of accountancy intended for those who expect to take the examinations for the title and certificate of Certified Public Accountant. Subject matter includes profits, preparation and analysis of statements, partnerships, corporations, trusts, treasury stock, no par stock, dividends, controlling accounts, agencies, branches, consignments, venture accounts, statements of affairs, application of funds, bonds, amortization, reserves, funds, consolidated statements and mergers.

Prerequisite: Ten credits in Accounting.

Lynn.

## 156. ADVANCED ACCOUNTING.—(D) Cr. 3.

Continuation of B.M. 155.

Lynn.

## 158. SPECIAL PROBLEMS IN ACCOUNTING.—(D) Cr. 3.

The subject matter is varied according to the needs and desires of the class members. Governmental accounting, budget making, the Federal Income Tax and regulations with problems may constitute the material for a semester; or systems, preparation and installation with a view to focusing the training of the student on the problems of systematization in professional practice



may be chosen as the basis of the course. Problems, exercises, and questions.

Prerequisite: Thirteen credits in Accounting.

(Omitted 1929-30.)

166. FINANCIAL ANALYSIS, CREDITS AND COLLECTIONS.—(D) Cr. 3.

A study is made of the relationship of the various asset, liability and net worth items shown on various types of balance sheets and financial statements; the form and classes of credits, sources of credit information, credit organization and procedure, qualifications of a credit manager, the nature, need, history, and development of credit work.

Prerequisite: Seven credits in Accounting.

Lynn.

168. BUSINESS FINANCE PROBLEMS.—(D) Cr. 3.

A course in financial and security market analysis, the factors controlling these markets, method of analysis used in practice with special relation to security prices and the business cycle. Stock exchange principles and practice. Each member of the class is required to make a finished study of a given subject. A one-day trip will be made to the Chicago Stock Exchange.

(Omitted 1929-30.)

172. PROBLEMS IN MARKETING.—(D) Sem. 2. Cr. 3.

The subject matter includes insurance or real estate. Emphasis for a semester course is placed on the subject in greatest demand.

Prerequisite: B.M. 121, Principles of Marketing.

(Omitted 1929-30.)

191. THE TEACHING OF COMMERCIAL SUBJECTS.—(D) Cr. 3.

A teacher's course. The materials for study include a historical survey of the development of commercial education, the high school commercial curricula and current tendencies in curricula making; methods in teaching business administration, commercial geography, business English, commercial arithmetic, accounting, business law salesmanship, shorthand, typewriting, penmanship and office training.

Prerequisite: Senior standing.

Lynn.

199. SEMINAR.—(D) Credits arranged.

Topics chosen for study are to be mutually agreed upon by the individual student and the head of the department. Hours and credits are to be arranged. Open only to Seniors.

### THE DEPARTMENT OF CHEMISTRY

PROFESSOR FULLER, ASSISTANT PROFESSOR THRUN

The work of this department is arranged to meet the needs of students who are preparing to major in chemistry or to become pharmaceutical chemists, pharmacists, physicians, dentists, and chemical engineers, to prepare students to be teachers of chemistry in high schools and colleges, and to supply the wants of students in the College of Liberal Arts who wish to acquire a knowledge of general chemistry.

Students who choose chemistry as their major subject may begin the study in their sophomore year and continue until the prescribed courses in



chemistry are completed. Collateral work may be chosen from among the courses in bio-chemistry, advanced organic and inorganic chemistry.

Major: 24 credits; will ordinarily take the following courses: 64, 101, 106, 107, 140, 181, at the discretion of the department, including Chemistry 51 and 52.

Minor: 12 credits; must include Chemistry 51, 52 and 64. The following additional courses are suggested: Chemistry 105 or Chemistry 140. Students taking a second minor in Chemistry take 15 units, which must include Chemistry 61.

#### COURSES IN CHEMISTRY

##### 51. GENERAL CHEMISTRY.—(B) Sem. 1. 3+3, Cr. 4.

Fundamental laws are taken up and the student thoroughly grounded by means of lectures and experiments. A few of the most common elements are described.

*Laboratory fee \$6.00; deposit \$4.00.*

Fuller.

##### 52. INORGANIC CHEMISTRY.—(B) Sem. 2. 3+3, Cr. 4.

A continuation of Chemistry 51. The properties of the elements, both chemical and physical, are studied and their reactions with one another are noted in the light of the most modern atomic theory and ionic hypothesis.

Prerequisite: Chemistry 51.

*Laboratory fee \$6.00; deposit \$4.00.*

Fuller.

##### 62. Qualitative Analysis.—(B) Sem. 2. 0+6, Cr. 2.

Separation and identification of all important cations and anions are studied. This course is especially suited to the needs of those studying pharmacy and medicine.

To accompany Chemistry 52.

*Laboratory fee \$6.00; deposit \$4.00.*

Fuller.

##### 64. QUALITATIVE ANALYSIS.—(B) Sem. 2. 0+9, Cr. 3.

Separation and identification of all important cations and anions, both wet and dry reactions. This course is preparatory to the courses in Quantitative Analysis.

Prerequisite: Chemistry 62.

*Laboratory fee \$6.00; deposit \$4.00.*

(Omitted 1929-30.)

Fuller.

##### 101. ORGANIC CHEMISTRY.—(C) Sem. 1. 3+6, Cr. 5.

A brief survey of the compounds of carbon, their preparation, properties, and applications is made.

Prerequisite: Chemistry 52.

*Laboratory fee \$7.50; deposit \$4.00.*

Thrun.

##### 102. ORGANIC CHEMISTRY.—(C) Sem. 1. 3+9, Cr. 6.

A brief survey of the compounds of carbon, their preparation, properties, and applications is made. Same as 101 with one more laboratory period for pre-medical students.

Prerequisite: Chemistry 52.

*Laboratory fee \$10.00; deposit \$4.00.*

Thrun.



## 103. ORGANIC CHEMISTRY.—(C) Sem. 1. 3+3, Cr. 4.

A brief survey of the compounds of carbon, their properties, preparation, and applications is made. Same as 101 with one less laboratory period for students in Home Economics.

Prerequisite: Chemistry 52.

Laboratory fee \$6.00; deposit \$4.00.

Thrun.

## 105. QUANTITATIVE ANALYSIS.—(C) Sem. 1. 1+6 Cr. 3.

This is a brief course in both gravimetric and volumetric methods designed to meet the needs of students in Pharmacy.

Prerequisite: Chemistry 62.

Laboratory fee \$6.00; deposit \$4.00.

Fuller.

## 106. QUANTITATIVE ANALYSIS, GRAVIMETRIC.—(C) Each semester. 1+9, Cr. 4.

Use of the balance. Filtration, washing, and ignition of precipitates. A number of inorganic substances are selected for analysis with the object of giving the student practice in the various operations in gravimetric analysis.

Prerequisite: Chemistry 62.

Laboratory fee \$6.00; deposit \$4.00.

(Omitted 1929-30.)

## 107. QUANTITATIVE ANALYSIS, VOLUMETRIC.—(C) Each semester. 1+9, Cr. 4.

Calibration of burettes and other measuring vessels. Acidmetry, alkali-metry, oxidation and reduction and precipitation methods of titration.

Prerequisite: Chemistry 62.

Laboratory fee \$6.00; deposit \$4.00.

(Omitted 1929-30.)

## 110. ORGANIC PHARMACEUTICAL CHEMISTRY.—(C) Sem. 2. 1+6, Cr. 3.

This course includes a study of the preparation, identification, properties, uses, and doses of many compounds of complex nature that have not been taken up in Organic Chemistry 101. It also includes a study of the structure and the synthesis of typical alkaloids and their tests.

Laboratory fee \$7.50; deposit \$4.00.

Thrun.

## 140. BIO-CHEMISTRY.—(C) Sem. 2. 3+3, Cr. 4.

The chemistry of proteins, carbohydrates, and fats, and the changes these undergo during processes of digestion and metabolism. Brief consideration of enzymes and vitamins. Special emphasis is placed upon the application of colloid chemistry to problems in bio-chemistry.

Prerequisite: Chemistry 101.

Laboratory fee \$7.50; deposit \$4.00.

Thrun.

151. ADVANCED BIO-CHEMISTRY.—(D) Sem. 1. 2+6, Cr. 4.  
Advanced consideration of the chemistry of plant and animal life.  
Prerequisite: Chemistry 140.  
*Laboratory fee \$7.50; deposit \$4.00.*  
Thrun.
152. INDUSTRIAL CHEMISTRY.—(D) Sem. 2. 2+0, Cr. 2.  
Lectures on the large scale manufacture of the more important chemicals, such as sulfuric acid, ammonia, and the alkalis.  
Fuller.
153. INORGANIC PHARMACEUTICAL CHEMISTRY.—(D) Sem. 1. 1+6, Cr. 3.  
This course includes the preparation of important inorganic pharmaceutical compounds, qualitative tests for impurities in them, the chemistry of inorganic antidotes, and a consideration of buffer action in relation to hydrogen ion concentration.  
Prerequisite: Chemistry 62.  
*Laboratory fee \$6.00; deposit \$4.00.*  
Thrun.
155. SYNTHETIC ORGANIC CHEMISTRY.—(D) 2+9, Cr. 5.  
The preparation and properties of important organic compounds are taken up in this work. The purpose of the course is practical training in the manufacture of certain organic chemicals.  
Prerequisite: Chemistry 101 and 105, or their equivalent.  
*Laboratory fee \$6.00; deposit \$4.00.*  
(Omitted 1929-30.)
156. WATER ANALYSIS.—(D) Sem. 1. 0+6, Cr. 2.  
Analysis of water from the sanitary and industrial standpoints.  
Prerequisite: Chemistry 105, or an equivalent.  
*Laboratory fee \$6.00; deposit \$4.00.*  
(Given on demand.)  
Fuller.
- 160-161. FOOD AND DRUG ANALYSIS.—(D) Yr. 1+6, Cr. 3.  
Designed to fit students for positions in food and drug laboratories. Qualitative and quantitative analysis of food and drug products commonly subjected to adulteration.  
*Laboratory fee \$6.00; deposit \$4.00.*  
(Omitted 1929-30.)
176. ORGANIC ANALYSIS.—(D) Sem. 2. 0+6, Cr. 2.  
Determinations of carbon, hydrogen, oxygen, and nitrogen in various organic substances.  
Prerequisite: Chemistry 101 and 105.  
*Laboratory fee \$6.00; deposit \$4.00.*  
(Given on demand.)  
Fuller.
180. HISTORY OF CHEMISTRY.—(D) Sem. 2. 1+0, Cr. 1.  
A survey of the history of chemical science from the earliest period to the present time. Lectures and collateral reading.  
(Given on demand.)  
Fuller.



## 182. PHYSICAL CHEMISTRY.—(D) Sem. 2. 3+3, Cr. 4.

A course designed for Juniors and Seniors in Physics and Chemistry. Modern physics, chemical theories concerning thermodynamics, equilibria, chemical kinetics, electro-chemistry, and other topics are considered.

(Omitted 1929-30.)

## 191. THE TEACHING OF CHEMISTRY.—(D) Cr. 2.

This course is designed to meet the needs of students preparing to teach science in high schools. Methods of arousing interest in pupils are discussed and the preparations of experiments for the lecture table are elucidated.

Prerequisite: Chemistry 101.

(Given in alternate years.)

Fuller.

## THE DEPARTMENT OF EDUCATION AND PSYCHOLOGY

PROFESSOR KROENCKE, ———

## A. EDUCATION

*Purpose*—Work in Education is planned to meet the needs of the following groups of students:

1. Candidates who wish to qualify for an A. B. degree and for a regular high school teacher's license.
2. Candidates desiring to qualify for this degree and for the first grade special high school teacher's license in art, commercial subjects, home economics, industrial arts, and physical education.
3. Candidates for the A. B. degree with a major in music who wish to qualify for the special high school teacher's license in music.
4. Candidates for the A. B. degree with a major in another department of the College of Liberal Arts who select Education as a minor.

## REQUIREMENTS FOR A HIGH SCHOOL TEACHER'S LICENSE

All candidates for a regular and special high school teacher's license are to meet the following requirements:

1. The entrance requirements of the University.
2. The general requirements of the junior college curriculum.
3. The particular group requirements of the senior college curriculum, equivalent to the minimum amount of academic and professional work which may be necessary for one or the other of the various licenses.
4. The courses in Education required for the kind and grade of license desired.
5. Electives for the remaining hours needed to make a total of 124 semester hours of credit as required for graduation.

For the curricula in commercial subjects, home economics, industrial arts, and physical education, see under the respective departments.

Detailed statements of requirements of the State Board of Education are found in the official bulletins of the State Department of Public Instruction. See especially Bulletin 94, 1927 (Rev. Ed.). Similar statements of the requirements in other states are on file in the office of this department.



Careful attention should be given to the requirements of the various states for a definite professional objective. Each student, therefore, is required to have his particular curriculum as well as the sequence of courses in his case approved by his adviser in Education.

### COURSES IN EDUCATION

#### 51. INTRODUCTION TO THE STUDY OF EDUCATION.—(B) Sem. 1. Cr. 3.

Some of the topics treated are: The organization of public education; the place and importance of education in our national life; the problems of education as they relate to the pupil, the teacher, and the parent; the general nature of the learning and the teaching processes; the educational reorganizations now under way; the scope of the public school system; financing public education; and present-day problems of our educational work.

#### 52. EDUCATIONAL PSYCHOLOGY.—(B) Sem. 2. Cr. 3.

A study of man's native equipment, the laws of learning, methods and economy in learning. Special consideration is given to the study of native capacities, emotions, and the dynamic role of instincts in school work.

Prerequisite: Psychology 51.

#### 113. GENERAL HISTORY OF EDUCATION.—(C) Sem. 1. Cr. 3.

A substitute for practice exemption. Educational theory and practice, beginning with the Greek and Roman periods, with the chief emphasis on the eighteenth and nineteenth century forces which have resulted in the creation of our modern national school system.

Kroencke.

#### 114. HISTORY OF EDUCATION IN THE UNITED STATES.—(C) Sem. 2. Cr. 3.

A substitute for practice exemption. A study of the development of American Educational ideals and practices, with special reference to the origin and development of the characteristically American features of our present-day education.

Kroencke.

#### 118. SECONDARY EDUCATION.—(C) Sem. 2. Cr. 3.

A course dealing with the purposes of the American secondary school and the ways and means by which those purposes are accomplished. Some of the topics treated are: American and European secondary education; problems in reorganization; characteristics of adolescence; the technique of guidance; the curriculum in terms of educational aims and objectives; the purposes governing the various activities of the departments of the school.

#### 120. TESTS AND MEASUREMENTS FOR ELEMENTARY SCHOOLS.—(C) Sem. 2. Cr. 3.

An introductory course in tests. The course will cover the uses of mental and subject-matter tests including those that can be made by the class room teacher. Such topics as the selection of tests, giving and scoring tests, and application of results to individual problems will be treated.

*Fee for materials, \$3.00.*



122. EXTRACURRICULAR ACTIVITIES OF THE SECONDARY SCHOOL.—(C) Sem. 2. Cr. 2.

Topics to be considered are: Educational values obtainable from extra-curricular activities; the development and administration of these activities; efficient methods for directing qualities of leadership, initiative, and cooperation; the technique of direction, to be worked out in detail for several types of activities, such as school assemblies, dramatics, and athletics.

(Omitted 1929-30.)

132. THE JUNIOR HIGH SCHOOL.—(C) Sem. 2. Cr. 3.

Intended primarily for prospective teachers and principals of junior high schools. A study of the nature and functions of the junior high school; its aims; the present status of its development; its present curriculum; its courses of instruction; significant features of certain junior high schools.

(Omitted 1929-30.)

151. PRINCIPLES OF TEACHING.—(D) Sem. 1. Cr. 3.

The course deals with the following general topics: the fundamental principles of teaching; a survey of important methods and types of teaching; problems of technique; class organization and management.

191. THE PROFESSIONAL ACADEMIC COURSE.—(D) Sem. 1. Cr. 2.

This course is administered by the Department of Education. It is usually numbered 191 in the various departments of the College of Liberal Arts. This arrangement applies to the following professional academic courses:

- Art 191. The Teaching of Public School Art.
- Bot. 191. The Teaching of Botany.
- B. M. 191. The Teaching of Commercial Subjects.
- Chem. 191. The Teaching of Chemistry.
- Eng. 191. The Teaching of English.
- French 191. The Teaching of French.
- German 191. The Teaching of German.
- Hist. 191. The Teaching of History.
- H. E. 191. The Teaching of Home Economics.
- Latin 191. The Teaching of Latin.
- Math. 191. The Teaching of Mathematics.
- M. 109-110. Elementary Public School Music Methods.
- M. 111-112. Appreciation of Elementary Public School Music.
- M. 191-192. High School Music Methods.
- M. 193-194. Appreciation of High School Music.
- Physics 191. The Teaching of Physics.
- Pol. Sc. 191. The Teaching of Social Studies.
- P. E. 191. The Teaching of Physical Education.
- P. M. 191. The Teaching of Industrial Arts.
- Zool. 191. The Teaching of Zoology.

192. SUPERVISED TEACHING IN HIGH SCHOOL SUBJECTS.—(D) Sem. 2. Cr. 3.

Open only to seniors. This course is designed for student-teachers in high school subjects. The observation and practice work is done in the high



school under the direction of the critic teacher. At least 40 class periods of observation, 20 class periods of teaching and a weekly conference are required. At these conferences reports of school work and assigned readings are discussed. An average grade of 1.5 quality points should have been earned in each of the subjects in which the student desires to be licensed.

*Fee* \$10.00.

## B. PSYCHOLOGY

### 51. GENERAL PSYCHOLOGY.—(B) Sem. 1. Cr. 3.

This course gives the student a general knowledge of the more important principles governing consciousness and behavior. The principal topics covered are instinct, habit, sensation, attention, association, perception, memory, imagination, reasoning, feeling, emotion, and will.

### 101. CHILD PSYCHOLOGY.—(C) Sem. 1. Cr. 3.

A general course in child study, devoted chiefly to the normal child. Much time is given to the discussion of the inborn tendencies, capacities, likes and dislikes, child reasoning, and general behavior of children up to the age of twelve and thirteen. Physical and mental difficulties leading to abnormal states are pointed out.

(Omitted 1929-30.)

### 116. ADOLESCENT PSYCHOLOGY.—(C) Sem. 2. Cr. 3.

A careful study of the problems of growth, reaction, mentality, and personality in adolescence, together with some account of the applied aspects as exemplified in typical junior and senior high schools.

## THE DEPARTMENT OF ENGINEERING

PROFESSOR BILGER, ASSOCIATE PROFESSOR WINSHIP, ASSISTANT PROFESSOR LAURITZEN,  
MR. MARZULLI, MR. UBAN

### GENERAL STATEMENT

The three principal divisions of engineering are civil, mechanical, and electrical. In each of these Valparaiso University offers the standard four-year college course with the degree of Bachelor of Science in Engineering.

The instruction is designed to ground the student thoroughly in the basic principles of engineering science and to offer sufficient application to engineering problems in order to enable him to be of service to his employer immediately upon graduation.

### ADVANTAGES

Because of the location of the University only 44 miles from Chicago, the world's greatest railroad center and the engineering center of the United States, Valparaiso students are within reach of engineering works of the first magnitude. There are abundant opportunities for official inspection trips to these works while in process of construction and when in operation. However, attention need not be confined wholly to engineering, for the several other departments of the University afford oppor-



tunity for collateral scientific work and for a wide range of cultural studies.

The particular service rendered by Valparaiso makes its strongest appeal to the young man of modest circumstances who seeks an education that will equip him thoroughly for his professional success as an engineer.

### OPPORTUNITIES FOR GRADUATES

Some fields of employment open to graduates in civil, mechanical, and electrical engineering are indicated as follows:

Civil Engineering graduates at once engage upon work that qualifies them as surveyors, topographical engineers, drainage and irrigation engineers, sanitary engineers, highway engineers, railway engineers, bridge engineers, structural engineers, materials testing engineers, research engineers, contractors and builders, etc. Many enter the service of the Government, as in the Geological Survey, the Coast and Geodetic Survey, the Bureau of Reclamation, the structural work of the Supervising Architect's Office, the highway work of the Bureau of Public Roads, etc.

Mechanical Engineering graduates find employment throughout a wide range of industrial and public service enterprises and in many branches of the Government. An important division in the industrial field is the "engineering department," where new designs are planned and developed for the industry. Within this department are the fields of testing, experimenting, and of scientific research. Another division is that of "Manufacturing," where the paramount problem is the attainment of maximum production at minimum cost. Still other divisions are those of maintenance, improvement work, and inspection service.

Electrical Engineering graduates are engaged for the design, manufacture, operation, and testing of equipment used for the generation, transmission, and utilization of electrical energy. According to the purposes of the various lines of equipment, the engineer may choose to enter the field of communication, having to do with the telephone, telegraph, radio, etc.; or the field of transportation, dealing with the traction of common carriers by electricity; or the broad fields of research, power, public utilities, manufacture, construction, etc.

### THE ENGINEERING CURRICULA

The Freshman Year for All Curricula in Engineering Is Identical

#### Freshman Year

##### First Semester

			Class	Lab.	Cr.
Math.	60.	College Algebra .....	2	+ 0	2
Math.	51.	Trigonometry .....	3	+ 0	3
Eng.	1.	Freshman Composition .....	3	+ 0	3
Chem.	51.	General Chemistry .....	3	+ 3	4
P. M.	1.	Engineering Drawing .....	0	+ 9	3
P. M.	10.	Woodshop; or 58, Machine Shop and Forge.....	0	+ 6	2

<i>Second Semester</i>			Class	Lab.	Cr.
Math.	70.	Analytical Geometry .....	5	+ 0	5
Eng.	2.	Freshman Composition .....	3	+ 0	3
Chem.	53.	Inorganic Chemistry .....	3	+ 3	4
P. M.	2.	Engineering Drawing .....	0	+ 9	3
P. M.	4.	Engineering Problems .....	0	+ 3	1
P. M.	10.	Woodshop; or 58, Machine Shop and Forge.....	0	+ 6	2
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					18

## THE CURRICULUM IN CIVIL ENGINEERING

## Sophomore Year

<i>First Semester</i>			Class	Lab.	Cr.
Math.	80.	Differential Calculus .....	5	+ 0	5
Phys.	61.	Technical Physics .....	3	+ 3	4
C. E.	51.	Surveying .....	2	+ 6	4
Geol.	61.	Engineering Geology .....	3	+ 3	4
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					17

<i>Second Semester</i>			Class	Lab.	Cr.
Math.	120.	Integral Calculus .....	5	+ 0	5
Phys.	62.	Technical Physics .....	3	+ 3	4
P. M.	51.	Descriptive Geometry .....	1	+ 3	2
C. E.	60.	Applied Mechanics .....	5	+ 0	5
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					16

## Junior Year

<i>First Semester</i>			Class	Lab.	Cr.
C. E.	101.	Surveying .....	2	+ 9	5
C. E.	107.	Curves and Earthwork (or Water Supply).....	3	+ 3	4
C. E.	120.	Graphics .....	0	+ 6	2
C. E.	130.	Mechanics of Materials .....	5	+ 0	5
					—
					16

<i>Second Semester</i>			Class	Lab.	Cr.
C. E.	109.	Railroads .....	2	+ 6	4
C. E.	115.	Stresses .....	5	+ 0	5
C. E.	125.	Roads and Pavements (or Sewerage).....	3	+ 3	4
C. E.	135.	Hydraulics .....	2	+ 3	3
		Elective .....	2	+ 0	2
					—
					18



## Senior Year

*First Semester*

		Class	Lab.	Cr.
C. E.	151. Masonry and Foundations .....	2	+ 0	2
C. E.	155. Bridge Design .....	1	+ 12	5
C. E.	163. Reinforced Concrete .....	3	+ 3	4
C. E.	169. Water Supply (or Curves and Earthwork).....	3	+ 0	3
M. E.	175. Heating and Ventilating .....	2	+ 0	2
	Elective .....	2	+ 0	2
				<hr/> 18

*Second Semester*

		Class	Lab.	Cr.
C. E.	159. Structural Design .....	0	+ 6	2
C. E.	164. Reinforced Concrete .....	3	+ 3	4
C. E.	173. Sewerage (or Roads and Pavements).....	3	+ 0	3
C. E.	181. Materials Testing .....	0	+ 6	2
C. E.	177.* Engineering Economics .....	2	+ 0	2
C. E.	185. Contracts and Specifications .....	2	+ 0	2
M. E.	125. Materials of Engineering .....	2	+ 0	2
	Elective .....	2	+ 0	2
				<hr/> 19

*Second Semester*

		Class	Lab.	Cr.
M. E.	152. Mechanical Laboratory .....	0	+ 6	2
M. E.	158. Heat and Power Engineering .....	3	+ 0	3
M. E.	164. Drawing and Design .....	0	+ 9	3
C. E.	135. Hydraulics .....	2	+ 3	3
C. E.	177. Engineering Economics .....	2	+ 0	2
C. E.	185. Contracts and Specifications .....	2	+ 0	2
E. E.	156. A. C. Machinery .....	1	+ 3	2
				<hr/> 17

## THE CURRICULUM IN ELECTRICAL ENGINEERING

## Sophomore Year

*First Semester*

		Class	Lab.	Cr.
Math.	80. Differential Calculus .....	5	+ 0	5
Phys.	61. Technical Physics .....	3	+ 3	4
C. E.	51. Surveying .....	2	+ 6	4
M. E.	51. Mechanisms .....	2	+ 3	3
B. M.	51. Business Management .....	3	+ 0	3
				<hr/> 19

*Second Semester*

		Class	Lab.	Cr.
Math.	120. Integral Calculus .....	5	+ 0	5
Phys.	62. Technical Physics .....	3	+ 3	4
E. E.	51. Elements of Electricity .....	3	+ 2	4
P. M.	51. Descriptive Geometry .....	1	+ 3	2
	Elective .....			2
				<hr/> 17

\*Approved electives may be substituted for courses marked by an asterisk.

## Junior Year

<i>First Semester</i>			Class	Lab.	Cr.
Phys. 125.	Electrical Measurements .....	1	+	6	3
C. E. 130.	Mechanics of Materials .....	5	+	0	5
M. E. 101.	Thermodynamics .....	3	+	0	3
E. E. 111.	D. C. Machinery .....	3	+	0	3
E. E. 112.	D. C. Laboratory .....	0	+	4	2
	Elective .....				2
					—
					18

<i>Second Semester</i>			Class	Lab.	Cr.
C. E. 60.	Applied Mechanics .....	5	+	0	5
C. E. 135.	Hydraulics .....	2	+	3	3
E. E. 113.	D. C. Machinery .....	3	+	0	3
E. E. 114.	D. C. Laboratory .....	0	+	4	2
M. E. 106.	Heat Engines .....	5	+	0	5
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					18

## Senior Year

(The Department will begin to offer Senior work in September, 1930.)

<i>First Semester</i>			Class	Lab.	Cr.
E. E. 151.	A. C. Machinery .....	4	+	0	4
E. E. 152.	A. C. Laboratory .....	0	+	4	2
E. E. 165.	Elec. Machine Design .....	0	+	6	2
E. E. 167.	Radio Communication .....	3	+	0	3
M. E. 111.	Mechanical Laboratory .....	0	+	3	1
M. E. 161.	Factory Management .....	2	+	0	2
Phys. 111.	Theory of Heat Laboratory .....	0	+	3	1
	Elective .....				2
					—
					17

<i>Second Semester</i>			Class	Lab.	Cr.
E. E. 153.	A. C. Machinery .....	4	+	0	4
E. E. 154.	A. C. Laboratory .....	0	+	4	2
E. E. 166.	Elec. Machine Design .....	0	+	6	2
E. E. 168.	Radio Communication .....	3	+	0	3
C. E. 177.*	Engineering Economics .....	2	+	0	2
C. E. 181.	Materials Testing .....	0	+	6	2
C. E. 185.*	Contracts and Specifications .....	2	+	0	2
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					17

\*Approved electives may be substituted for courses marked by an asterisk.



## THE CURRICULUM IN MECHANICAL ENGINEERING

## Sophomore Year

## First Semester

			Class	Lab.	Cr.
Math.	80.	Differential Calculus .....	5	+ 0	5
Phys.	61.	Technical Physics .....	3	+ 3	4
C. E.	51.	Surveying .....	2	+ 6	4
M. E.	51.	Mechanisms .....	2	+ 3	3
P. M.	61.	Foundry .....	0	+ 6	2
					18

## Second Semester

			Class	Lab.	Cr.
Math.	120.	Integral Calculus .....	5	+ 0	5
Phys.	61.	Technical Physics .....	3	+ 3	4
P. M.	51.	Descriptive Geometry .....	1	+ 3	2
P. M.	60.	Machine Shop .....	0	+ 6	2
C. E.	60.	Applied Mechanics .....	5	+ 0	5
					18

## Junior Year

## First Semester

			Class	Lab.	Cr.
C. E.	130.	Mechanics of Materials .....	5	+ 0	5
Phys.	111.	Theory of Heat Laboratory .....	0	+ 3	1
M. E.	101.	Thermodynamics .....	3	+ 0	3
M. E.	111.	Mechanical Laboratory .....	0	+ 3	1
M. E.	118.	Machine Design .....	2	+ 6	4
E. E.	107.	Elements of Electrical Engineering .....	4	+ 3	5
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## Second Semester

			Class	Lab.	Cr.
C. E.	181.	Materials Testing .....	0	+ 6	2
M. E.	106.	Heat Engines .....	5	+ 0	5
M. E.	119.	Machine Design .....	2	+ 6	4
M. E.	125.	Materials of Engineering .....	2	+ 0	2
E. E.	108.	Elements of Electrical Engineering .....	4	+ 3	5
					18

## Senior Year

(The Department will begin to offer Senior work in September, 1930.)

## First Semester

			Class	Lab.	Cr.
M. E.	151.	Mechanical Laboratory .....	0	+ 6	2
M. E.	157.	Heat and Power Engineering .....	3	+ 0	3
M. E.	161.	Factory Management .....	2	+ 0	2
M. E.	163.	Drawing and Design .....	0	+ 9	3
M. E.	175.	Heating and Ventilating .....	2	+ 0	2
E. E.	155.	A. C. Machinery .....	1	+ 3	2
B. M.	51.	Business Management .....	3	+ 0	3
					17

## Second Semester

			Class	Lab.	Cr.
M. E.	152.	Mechanical Laboratory .....	0	+ 6	2
M. E.	158.	Heat and Power Engineering .....	3	+ 0	3
M. E.	164.	Drawing and Design .....	0	+ 9	3
C. E.	135.	Hydraulics .....	2	+ 3	3
C. E.	177.	Engineering Economics .....	2	+ 0	2
C. E.	185.	Contracts and Specifications .....	2	+ 0	2
E. E.	156.	A. C. Machinery .....	1	+ 3	2
					17

## COURSES IN CIVIL ENGINEERING

## 51. SURVEYING.—(B) Sem. 1. 2+6, Cr. 4.

Field and drafting-room work with recitations, covering the fundamentals and practice of plane surveying, and including the theory, adjustment, care, and use of such surveying equipment, as the measuring tape, compass, level, transit, etc.

Practice in measuring lengths, areas, angles, etc.; systematic recording of field notes; making maps, plans, profiles, cross-sections, etc., from field notes; computations with use of logarithmic and other tables.

Prerequisite: Math. 51 and P. M. 2.

*Laboratory fee \$6.00; deposit \$4.00.*

Blickensderfer.

## 60. APPLIED MECHANICS.—(B) Sem. 2. 5+0, Cr. 5.

Covering Statics and Kinetics. Composition and resolution of forces; principles of equilibrium of rigid bodies, commencing with the particle, with applications to machines, cranes, trusses, and other framed structures; centers of gravity and moments of inertia.

Force, mass, and acceleration; general equations of motion derived from Newton's laws; simple and compound pendulums; work, energy, impulse, momentum, impact, and friction. Practical applications of the principles are made to typical engineering problems.

Prerequisite: Math. 80 and 120, or Math. 120 concurrently with C. E. 60.

Bilger.

## 101. SURVEYING.—(C) Sem. 1. 2+9, Cr. 5.

Field and drafting-room work with recitations, including the theory and use of the plane table, stadia, sextant, and solar attachment to the transit, in triangulation, city surveying, topographic surveying, hydrographic surveying.

Also the application of astronomical theory to surveying in observations for determining latitude, azimuth, and time.

Prerequisite: C. E. 51.

*Laboratory fee \$6.00; deposit \$4.00.*

Blickensderfer.

## 107. CURVES AND EARTHWORK.—(C) Sem. 1. 3+3, Cr. 4.

Recitations and field work in simple, compound, and transition curves as related to railways, highways, and canals. Survey and design of a transportation line, including reconnaissance, preliminary, and location work; estimates of quantities and costs; frog and switch work.

Prerequisite: C. E. 51.

*Laboratory fee \$2.00; deposit \$4.00.*

Alternates with C. E. 169.

Blickensderfer.

## 109. RAILROADS.—(C) Sem. 2. 2+6, Cr. 4.

Principles and practice of railroad construction, maintenance, operation, and valuation: covering track, ballast, culverts, minor bridges, standard structures, tunnels, yards, terminals, etc. Also comparisons of materials for



railroad use, preservative treatment of ties, and economics of railroad location as affected by balancing operating costs against grades and curvature.

Prerequisite: C. E. 107.

Laboratory fee \$6.00; deposit \$4.00.

Bilger.

115. STRESSES.—(C) Sem. 2. 5+0, Cr. 5.

The determination of reactions, moments, and shears in beams and simple trusses. Stresses in roof and bridge trusses under static and dynamic loads by the algebraic method, with some attention to the graphical method.

Prerequisite: C. E. 60.

Blickensderfer.

120. GRAPHICS.—(C) Sem. 1. 0+6, Cr. 2.

Graphical determination of stresses in roof and bridge trusses under action of static and moving loads; stresses in cranes and similar structures; also centers of gravity and moments of inertia by graphics.

Prerequisite: C. E. 60.

Bilger.

125. ROADS and PAVEMENTS.—(C) Sem. 2. 3+3, Cr. 4.

A study of the design, construction, and maintenance of various types of road and street wearing courses and foundations, covering plain and oiled earth, sand-clay, gravel, macadam, brick, concrete, granite block, asphalt block, wood block, and bituminous work. Particular attention is given to problems of drainage, grade, curves, width, etc. Following Government practice, complete surveys and plans are made for a specific highway improvement, and quantities and cost are estimated.

Prerequisite: C. E. 51.

Laboratory fee \$2.00; deposit \$4.00.

Alternates with C. E. 173.

Blickensderfer.

130. MECHANICS of MATERIALS.—(C) Sem. 1. 5+0, Cr. 5.

Principles of mechanics applied to structural members and engineering materials: covering physical properties of materials; theory of homogeneous and compound beams, including simple, cantilever, fixed, and continuous types; columns; resilience and work; impact and fatigue; rollers, plates and spheres; mathematical theory of elasticity; interpretation of results of actual tests of materials; study of shapes and other products given in the steel company's hand-books.

Prerequisite: C. E. 60.

Bilger.

135. HYDRAULICS.—(C) Sem. 2. 2+3, Cr. 3.

Lectures, recitations, and laboratory work on the laws of the motion of fluids; covering flow through orifices, open channels, and weirs. Also hydrostatic pressure on dams and gates; the theory of impulse wheels, turbines, and centrifugal pumps; the fundamentals underlying hydraulic development.

Prerequisite: Math. 120.

Blickensderfer.

151. MASONRY and FOUNDATIONS.—(D) Sem. 1. 2+0, Cr. 2.

Materials for masonry, including stone, brick, terra cotta, tile, cement, lime, sand, etc., and the methods of using them.

Foundation design; covering subterranean explorations and unit loads; pneumatic caissons for bridges and buildings; the freezing process; timber, concrete, tubular and sheet piling; cofferdams; pier foundations in open wells; ordinary bridge piers; cylinders and pivot piers; bridge abutments; spread footings for building foundations.

Blickensderfer.

155. BRIDGE DESIGN.—(D) Sem. 1. 1+12, Cr. 5

The design of plate girder bridges and the complete design, with all computations and plans, of a railroad simple truss bridge. Computations with stresses and sections of all members, pins, pin plates, splices, etc., and connecting rivets are arranged systematically. General detail plans show location of all rivets and make-up and relation of all members and connections. Final report gives full list of shapes, plates, etc., and a classified analysis of the estimated weight of the entire structure.

Prerequisite: C. E. 120 and 115.

Bilger.

159. STRUCTURAL DESIGN.—(D) Sem. 2. 0+6, Cr. 2.

Principles and practice in the design and detail of various types of ordinary structures of wood, steel, and their combination. Covers the detailing of plate girders, the design of structural members and connections, the design of wood trusses.

Prerequisite: C. E. 115.

Bilger.

163. REINFORCED CONCRETE.—(D) Sem. 1. 3+3, Cr. 4.

Materials for concrete, including cements, aggregates and water; the mixing, placing, and curing of concrete; properties of plain concrete; theory of reinforced concrete as applied to various structural members, as columns, beams, girders, slabs, etc.; T-beams and beams reinforced for compression; direct stress combined with flexure.

Prerequisite: C. E. 60 and C. E. 130.

Bilger.

164. REINFORCED CONCRETE.—(D) Sem. 2. 3+3, Cr. 4.

The design of retaining walls, dams, and girder bridges. Study of several types of floor, roof, and foundation construction for commercial buildings. The complete design, with working drawings and reinforcing schedules, of a reinforced concrete building, including stairway, elevator shafts, pent-houses, etc.

Prerequisite: C. E. 163.

Bilger.

169. WATER SUPPLY.—(D) Sem. 1. 3+0, Cr. 3.

Sources and purity of water supplies and works for the distribution of water. Includes general hydrology, water resources of a basin, percolating waters, probable draft, flow into wells, data for designing conduits, typical structures, distributing reservoirs, network of street mains, fire protection, economics of pumped supplies, topographic maps of cities and drainage basins, and the design of a water supply system from given data.

Alternates with C. E. 107.

Blickensderfer.



## 173. SEWERAGE.—(D) Sem. 2. 3+0, Cr. 3.

The principles and practice in the design and construction of storm, sanitary, and combined systems of sewers; sewage treatment and disposal, with construction problems on the details of plants for the same; hydraulic problems, involving study of rain-fall, run-off, laws of flow, etc.; study of materials and methods of construction, specifications, and estimates of cost; the design of a small system for storm water and sanitary drainage, including house connections.

Alternates with C. E. 125.

Blickensderfer.

## 177. ENGINEERING ECONOMICS.—(D) Sem. 2. 2+0, Cr. 2.

A study of the fundamental principles of economics and their application to engineering structures and operations. Includes analyses of the problems of investment and first cost; interest on money; business units, as the sole proprietor, the partnership, the corporation; business statistics, as financial statements, cost keeping, comparisons; depreciation; theories of valuation; engineering reports.

Blickensderfer.

## 181. MATERIALS TESTING.—(D) Sem. 2. 0+6, Cr. 2.

Study of theory, construction, and use of testing machines and the methods of commercial testing; determination of the properties of construction materials by mechanical tests, covering tensile, compressive, shearing, torsional, and flexure tests of metal and various tests of wood, all with stress-strain observations; tests of cement, concrete aggregate, plain and reinforced concrete. The effect of heat upon metals is investigated and the S. A. E. specifications are studied.

Prerequisite: M. E. 125 and C. E. 130.

Laboratory fee \$6.00; deposit \$4.00.

Uban.

## 185. CONTRACTS AND SPECIFICATIONS.—(D) Sem. 2. 2+0, Cr. 2.

Legal, contractual, and personal engineering relations; development of contract principles; preparation of engineering contracts; general condition clauses, as extras, alterations, time limit, payment, etc.; interpretation of specifications; practice in writing specifications and reports; acquisition and conveyance of land; property rights defined by boundaries.

Marzulli.

## COURSES IN ELECTRICAL ENGINEERING

## 51. ELEMENTS OF ELECTRICITY.—(B) Sem. 2. 3+2, Cr. 4.

An introductory course in electricity and magnetism. Ohm's law, units, instruments, induction, resistance capacity. The experimental work includes the manipulation of electrical apparatus and instruments, the study of safety methods and the practical application of the theory.

Prerequisite: Math. 51.

Laboratory fee \$2.00; deposit \$4.00.

Lauritzen.

## 107. ELEMENTS OF ELECTRICAL ENGINEERING.—(C) Sem. 1. 4+3, Cr. 5.

A general course in the study of electric machinery and power, direct current apparatus, generation, measurement and application of electric power.

Experimental work on direct current circuits, including the use and calibration of instruments and the testing of direct current apparatus. Course is offered to non-electrical engineering students.

Prerequisite: Physics 62.

Laboratory fee \$4.00; deposit \$4.00.

Marzulli.

108. ELEMENTS OF ELECTRICAL ENGINEERING.—(C) Sem. 2. 4+3, Cr. 5.

A continuation of course 107, with special emphasis on alternating current apparatus and circuits.

Prerequisite: E. E. 107. Math. 120, required concurrently.

Laboratory fee \$4.00; deposit \$4.00.

Marzulli.

111. DIRECT CURRENT MACHINERY.—(C) Sem. 1. 3+0, Cr. 3.

A course for junior electrical engineers including the theory of dynamo electric machinery. Characteristic curves, parallel operation, operating characteristics, theory of commutation, rating, and efficiency.

Prerequisite: E. E. 51.

Lauritzen.

112. D. C. LABORATORY.—(C) Sem. 1. 0+4, Cr. 2.

A laboratory course to be taken with E. E. 111. The testing, operating characteristics, and rating of direct current apparatus.

Laboratory fee \$6.00; deposit \$4.00.

Lauritzen.

113. DIRECT CURRENT MACHINERY.—(C) Sem. 2. 3+0, Cr. 3.

A continuation of E. E. 111.

Prerequisite: E. E. 111.

Lauritzen.

114. D. C. LABORATORY.—(C) Sem. 2. 0+4, Cr. 2.

A continuation of E. E. 112.

Prerequisite: E. E. 111 and 112.

Laboratory fee \$6.00; deposit \$4.00.

Lauritzen.

151. ALTERNATING CURRENT MACHINERY.—(D) Sem. 1. 4+0, Cr. 4.

A course for senior electrical engineers including the study of alternating current circuits and machinery. The application of mathematics and graphics to alternating current circuits. Transient and high frequency phenomena. Hysteresis and eddy currents. Measurement of alternating current quantities. Transformers, induction motors, and synchronous machines.

(Omitted 1929-30.)

152. A. C. LABORATORY.—(D) Sem. 1. 0+4, Cr. 2.

A laboratory course to be taken with E. E. 151. The testing of alternating current circuits and apparatus. Operating and efficiency tests of transformers and alternating current machinery.

Laboratory fee \$6.00; deposit \$4.00.

(Omitted 1929-30.)



153. ALTERNATING CURRENT MACHINERY.—(D) Sem. 2. 4+0, Cr. 4.  
A continuation of E. E. 151.  
Prerequisite: E. E. 151.  
(Omitted 1929-30.)
154. A. C. LABORATORY.—(D) Sem. 2. 0+4, Cr. 2.  
A continuation of E. E. 153.  
Prerequisite: E. E. 152.  
*Laboratory fee \$6.00; deposit \$4.00.*  
(Omitted 1929-30.)
155. A. C. MACHINERY.—(D) Sem. 1. 1+3, Cr. 2.  
A continuation of E. E. 108, Elements of Electrical Engineering.  
(Omitted 1929-30.)
156. A. C. MACHINERY.—(D) Sem. 2. 1+3, Cr. 2.  
A continuation of E. E. 155, Elements of Electrical Engineering.  
(Omitted 1929-30.)
- 165-166. ELECTRIC MACHINE DESIGN.—(D) Yr. Each semester. 0+6,  
Cr. 2.  
The design of direct current generators and motors, and of alternating  
current transformers, generators, and synchronous machines.  
Prerequisite: E. E. 113.  
(Omitted 1929-30.)
167. RADIO COMMUNICATION.—(D) Sem. 1. 3+0, Cr. 3.  
The fundamental principles of radio telegraphy and radio telephony,  
with a study of the construction and operation of radio apparatus.  
Prerequisite: Senior standing in E. E. or M. E.  
(Omitted 1929-30.)
168. RADIO COMMUNICATION.—(D) Sem. 2. 3+0, Cr. 3.  
Continuation of E. E. 167.  
(Omitted 1929-30.)

## COURSES IN MECHANICAL ENGINEERING

51. MECHANISMS.—(B) Sem. 1. 2+3, Cr. 3.  
A study of the various elemental mechanisms used in machine construction; including instant centers, velocity and velocity diagrams, parallel and straight line motions, belt and pulley layouts, and the design of cams and gears.  
Winship.
101. THERMODYNAMICS.—(C) Sem. 1. 3+0, Cr. 3.  
The theory of gases with their behavior and laws. Special emphasis is placed on steam tables, the characteristics of steam and of other gases used for power purposes. A study is made of their practical applications.  
Prerequisite: Math. 120.  
Winship.
106. HEAT ENGINES.—(C) Sem. 2. 5+0, Cr. 5.  
Covers the various types of steam and internal combustion engines and the boiler and gas producers used for their power. The theory, operation,

efficiency, and auxiliary equipment are considered and some direct observations are made.

Prerequisite: M. E. 101.

Winship.

111. MECHANICAL LABORATORY.—(C) Sem. 1. 0+3, Cr. 1.

Elementary tests of mechanical equipment; including lubricators, bearings, oils, friction tests, fuel tests, and the calibration of thermometers, gauges, indicators, and calorimeters.

*Laboratory fee \$6.00; deposit \$4.00.*

Uban.

118. MACHINE DESIGN.—(C) Sem. 1. 2+6, Cr. 4.

Consists of two hours recitation a week on the theory of design of machine parts, and nine hours drafting room practice in applying basic principles in the design of typical machines such as punches and pumps.

Winship.

119. MACHINE DESIGN.(C) Sem. 2. 2+6, Cr. 4.

This is a continuation of M. E. 118, and upon its completion embraces the theory, computations, details, and assembly drawings of the machines studied.

Winship.

125. MATERIALS OF ENGINEERING.—(C) Sem. 2. 2+0, Cr. 2.

A study of ferrous and non-ferrous metals, alloys, and other materials commonly used in engineering; including cement, sand, stone, concrete, brick, terra cotta, etc.

This course is given in conjunction with C. E. 181.

Uban.

151. MECHANICAL LABORATORY.—(D) Sem. 1. 0+6, Cr. 2.

An experimental study of the simple slide valve steam engine, valve setting, pumps, blowers, flue gas analysis, dynamometers, gasoline engines, carburetors, and heating plants.

*Laboratory fee \$6.00; deposit \$4.00.*

(Omitted 1929-30.)

152. MECHANICAL LABORATORY.—(D) Sem. 2. 0+6, Cr. 2.

Tests of boilers, condensers, feed-water heaters, plants for refrigeration, pumping, and power; turbines and steam, oil, and gas engines.

*Laboratory fee \$6.00; deposit \$4.00.*

(Omitted 1929-30.)

157. HEAT POWER ENGINEERING.—(D) Sem. 1. 3+0, Cr. 3.

A study of the theory and design of heat engines and power plant equipment.

(Omitted 1929-30.)

158. HEAT POWER ENGINEERING.—(D) Sem. 2. 3+0, Cr. 3.

This is a continuation of M. E. 157.

(Omitted 1929-30.)



161. **FACTORY MANAGEMENT.**—(D) Sem. 1. 2+0, Cr. 2.  
 Organization and lay-out; selection, placement, and wage payment of laborers; scientific management in production.  
 Prerequisite: Junior standing.  
 (Omitted 1929-30.)
163. **DRAWING AND DESIGN.**—(D) Sem. 1. 0+9, Cr. 3.  
 Given in conjunction with M. E. 157 and covers the design and detailing of either steam or internal combustion engine to satisfy given specifications.  
 (Omitted 1929-30.)
164. **DRAWING AND DESIGN.**—(D) Sem. 2. 0+9, Cr. 3.  
 The completion of M. E. 163. When time permits it includes a preliminary layout of associated problems.  
 (Omitted 1929-30.)
175. **HEATING AND VENTILATING.**—(D) Sem. 1. 2+0, Cr. 2.  
 A study of methods of heating and ventilating residences, public buildings, and industrial plants. The ventilation of tunnels, shafts, and mines receives some attention. During the last few weeks a small heating and ventilating plant is designed.

Uban.

## COURSES IN PRACTICAL MECHANICS

1. **ENGINEERING DRAWING.**—(A) Sem. 1. 0+9, Cr. 3.  
 Lettering, care and use of instruments, principles of orthographic projection, common engineering geometry, working drawings, special sections, common fasteners, tracing and duplicating.  
 Marzulli.
2. **ENGINEERING DRAWING.**—(A) Sem. 2. 0+9, Cr. 3.  
 Shop sketching, pictorial representation including isometric, cabinet and perspective drawing, platting graphs, topographical maps, simple lay-out of structural steel, electrical symbols and architectural conventions.  
 Prerequisite: P. M. 1.  
 Marzulli.
4. **ENGINEERING PROBLEMS.**—(A) Sem. 2. 0+3, Cr. 1.  
 Typical elementary problems from various fields to suggest to the student the nature and scope of engineering work. Lectures and problems are designed principally for an orientation course.  
 Blickensderfer.
10. **WOOD SHOP.**—(A) Sem. 1 or 2. 0+6, Cr. 2.  
 Care and use of wood-working tools and machinery; with practice in the essentials of form work for simple concrete jobs, common scaffolding and frames, cribbing, roof and bridge trusses and the elements of pattern making.  
 Laboratory fee \$6.00; deposit \$4.00.

Winship.

## 51. DESCRIPTIVE GEOMETRY.—(B) Sem. 2. 1+3, Cr. 2.

A study of points, lines, and planes in space including intersection of solids, development of surfaces and the principles of shades and shadows. Emphasis is placed on the solution of practical problems involving the theory covered.

Prerequisite: P. M. 2.

Lauritzen.

## 56. CABINET MAKING.—(B) Sem. 1 or 2. 0+9, Cr. 3.

Construction of common cabinet projects; including framing, case work, and finishing. The methods of both hand work and mill work are considered an integral part of the course.

*Laboratory fee \$6.00; deposit \$4.00.*

Winship.

## 57. ELEMENTARY WOOD WORKING.—(B) Sem. 2. 0+9, Cr. 3.

Hand work in wood and the use of hand tools with special emphasis on wood working suitable for the elementary grades. Includes work-play projects of instructional value to those grades.

*Laboratory fee \$6.00; deposit \$4.00.*

(Omitted 1929-30.)

## 58. MACHINE SHOP AND FORGE.—(B) Sem. 1 and 2. 0+6, Cr. 2.

Hand working of metals. Care and operation of common machine tools, as drill presses, lathes, shapers, millers, grinders and saws. Sample forging, welding and heat treating.

*Laboratory fee \$6.00; deposit \$4.00.*

Uban.

## 59. FARM MECHANICS.—(B) Sem. 2. 0+9, Cr. 3.

Covers the manipulation of common farm hand tools and furnishes practice in making small equipment such as hog feeders, sprouters, gates, corn testers, and roofs. Includes soldering, welding, rope splicing, harness repairing, machine repair, the operation of gas engines, and the running of levels for farm drainage.

*Laboratory fee \$6.00; deposit \$4.00.*

(Omitted 1929-30.)

## 60. MACHINE SHOP.—(B) Sem. 2. 0+6, Cr. 2.

Elements of machine and tool making with the necessary auxiliary work in hardening, tempering, drawing, and punch press performance.

Prerequisite: P. M. 58.

*Laboratory fee \$6.00; deposit \$4.00.*

Uban.

## 61. FOUNDRY.—(B) Sem. 1 or 2. 0+6, Cr. 2.

The making of bench and floor moulds, green and baked sand cores, aluminum and brass furnace practice and operation. Cupola practice for cast iron with the determination of charges and the composition of the resulting castings.

*Laboratory fee \$6.00; deposit \$4.00.*

Winship.



## 113. FURNITURE DRAWING.—(C) Sem. 1. 0+6, Cr. 2.

The fundamental principles governing the design of furniture. Covers the styles, general construction features, and details of the various pieces of different periods.

(Omitted 1929-30.)

## 116. GENERAL SHOP DRAWING.—(C) Sem. 2. 0+6, Cr. 2.

Design and representation of projects and equipment used in the general shop courses, such as electric circuits, ignition circuits, radio hook-ups, sheet metal projects, plumbing layouts, and bent metal projects.

(Omitted 1929-30.)

## 117. ARCHITECTURAL DRAWING.—(C) Sem. 1. 0+6, Cr. 2.

Plans, elevations, perspective, and construction details of simple frame buildings, as garages and simple frame houses.

(Omitted 1929-30.)

## 151. GENERAL SHOP I.—(D) Sem. 1. 0+9, Cr. 3.

Care and use of shop equipment employed for the following work: concrete form building, electricity, general woodwork repair, plumbing repair, painting, glazing, and sheet metal work.

*Laboratory fee \$6.00; deposit \$4.00.*

Urban.

## 152. GENERAL SHOP II.—(D) Sem. 2. 0+9, Cr. 3.

Care and use of general shop equipment employed in the following work: forging, soldering, simple auto repairing, and the cold handling of metals, as drilling, threading, bending, riveting, and sawing.

*Laboratory fee \$6.00; deposit \$4.00.*

Urban.

## 191. THE TEACHING OF INDUSTRIAL ARTS.—(D) Sem. 1. Cr. 3.

A teacher's course. A comparative analysis of the methods for teaching industrial arts, as developed from theory and practice.

(Omitted 1929-30.)

## THE CURRICULUM IN INDUSTRIAL ARTS

The curriculum in Industrial Arts leads to the degree of Bachelor of Arts and is designed primarily to meet the needs of students who expect to direct such work in the public schools.

## Freshman Year

Industrial Arts students take the work of the regular Liberal Arts freshman year

## Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Sophomore	Constant .....	6	Sophomore	Constant .....	6
Psych. 51.	General Psychology ....	3	Ed. 52.	Educational Psychology ..	3
P. M. 1.	Engineering Drawing ...	3	P. M. 2.	Engineering Drawing ...	3
P. M. 10.	Wood Shop .....	2	P. M. 56.	Cabinet Making .....	3
	Elective .....	2		Elective .....	1
		<hr/>			<hr/>
		16			16



## Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Phys. 51.	*General Physics .....	4	Phys. 52.	General Physics .....	4
P. M. 61.	Foundry .....	2	P. M. 58.	Machine Shop .....	2
P. M. 113.	Furniture Drawing or		P. M. 116.	General Shop Drawing ..	2
P. M. 117.	Architectural Drawing ..	2	Ed. 119.	Secondary Education ....	3
Ed. 113.	General History of Edu-		Art. 52.	Composition .....	2
	cation .....	3		Elective .....	3
Art. 51.	Composition .....	2			—
	Elective .....	3			16
		—			—
		16			16

## Senior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
P. M. 151.	General Shop .....	3	P. M. 152.	General Shop .....	3
P. M. 191.	Teaching Industrial Arts.	2	Psych. 121.	Tests and Measurements.	3
B. M. 51.	Business Management ...	3	Ed. 192.	Supervised Teaching ....	3
B. M. 142.	Industrial Management ..	2	B. M. 152.	Business Management and	
Ed. 151.	Principles of Teaching ..	3		Policies .....	3
	Elective .....	3		Elective .....	4
		—			—
		16			16

The special courses employed in the curriculum of Industrial Arts are listed under Practical Mechanics.

## THE DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE

PROFESSOR ROBINSON, ASSOCIATE PROFESSOR ABBETMEYER, MRS. DICKSON,  
MR. CLIFFORD

Majors: A major consists of a minimum of twenty-four credit hours, exclusive of English 1 and 2, 51 and 52.

General Major: The courses selected for a general major should be distributed as follows:

Composition: Cr. 6, to be chosen from English 61, 62, 124, 131, 132, 134, 143, 144.

English Literature: Cr. 9, to be chosen from English 55, 56, 111, 116, 125, 126, 163, 166, 167, 170, 171, 173, 175, 195, 196, 198.

American Literature: Cr. 6, to be chosen from English 122, 128, 157, 165.

Oral Expression: Cr. 6, to be chosen from English 101, 102, 103, 104.

Major in English Literature: Students may also major in English Literature, in which case they are advised to include English History among their electives and to acquire a reading knowledge of a foreign language.

Major in Preparation for Journalism: For the three-year program preparing for *Journalism* the student should complete the freshman and sophomore constants and select courses from the following groups: English 55, 56, 61, 62, 125, 126, 124, 131, 132, 165, 167, 170; History 51,

\*Or other approved science.



52, 111, 112, 131, 132, 133; Economics 51, 52, 101, 152; Political Science 51, 52, 151, 154, 155; Sociology 51, 52; Philosophy 51, 52, 101, 121; Psychology 51.

This work must total at least 90 credits.

Major in Preparation for Library Science: Students who intend to apply for admission to an approved *library school* on the completion of their college work, should select their basic courses from the following groups: English Literature, Speech, Modern Languages, Latin, History, Economics, Political Science, Sociology, Psychology, Philosophy, Education, and one or more of the following sciences: Botany, Geology, Zoology, Physics, Chemistry.

Minor: A minor consists of twelve credit hours, exclusive of English 1 and 2, 51 and 52.

1. FRESHMAN COMPOSITION.—(A) Sem. 1. Cr. 3.

A study and practice of good writing, with emphasis on exposition. Short and long themes, collateral reading, conferences. Required of all students.

Abbetmeyer and Dickson.

2. FRESHMAN COMPOSITION.—(A) Sem. 2. Cr. 3.

Continuation of English 1.

Prerequisite: English 1.

Abbetmeyer and Dickson.

51-52. TYPES OF LITERATURE.—(B) Yr. Each semester. Cr. 2.

A study of the types of literature with special attention to literary form as portrayed by the great masters. Collateral readings and lectures. A part of the Sophomore Constant.

Dickson.

55-56. SURVEY OF ENGLISH LITERATURE.—(B) Yr. Each semester. Cr. 3.

A survey of English literature from Beowulf to the close of the 19th Century with emphasis on the significant writers and movements. A course for students majoring in English.

Abbetmeyer.

61. EXPOSITION.—(B) Sem. 1. Cr. 2.

A study of the principles of expository writing. Themes and conferences.

Prerequisite: English 2.

Dickson.

62. NARRATION.—(B) Sem. 2. Cr. 2.

A study of the plot, characterization, and setting in the modern novel and short story. Themes and conferences.

Prerequisite: English 2.

Alternates successively with English 124 and 134.

(Omitted 1929-30.)

## 111. NINETEENTH CENTURY ESSAY.—(C) Sem. 2. Cr. 3.

A critical study of the works of masters of modern English prose: Haslitt, Macaulay, Lamb, De Quincy, Carlyle, Ruskin, Arnold, Newman and Stevenson.

Alternates successively with English 167 and 170.

(Omitted 1929-30.)

## 116. NINETEENTH CENTURY ENGLISH POETS.—(C) Sem. 2. Cr. 3.

A study of the poets from Wordsworth to Tennyson with emphasis on their poetic technique and philosophy of life.

Alternates with English 198.

Robinson.

## 122. AMERICAN POETRY.—(C) Sem. 1. Cr. 2.

A study of American poets as they express American thought.

Alternates with English 165.

Robinson.

## 124. SHORT STORY WRITING.—(C) Sem. 2. Cr. 2.

A study of narrative and descriptive prose and the art of modern prose fiction. The short story is selected for discussion and practice.

Alternates successively with English 62 and 134.

Dickson.

## 125. SHAKESPEARE.—(C) Sem. 1. Cr. 3.

Analysis of the literary and dramatic art of Shakespeare's plays, with some consideration of his age and his development as a playwright. Lectures and discussion.

Alternates with English 163.

(Omitted 1929-30.)

## 126. SHAKESPEARE.—(C) Sem. 2. Cr. 3.

Continuation of English 125.

Prerequisite: English 125.

Alternates with English 166.

(Omitted 1929-30.)

## 128. TRANSCENDENTAL LITERATURE.—(C) Sem. 2. Cr. 2.

A study of Emerson and his school and his influence on American thought and literature. Special emphasis will be placed upon Emerson's writings and lectures.

Alternates with English 157.

(Omitted 1929-30.)

## 131-132. —JOURNALISM.—(C) Yr. Each semester. Cr. 2.

An introduction to the principles of news-writing. Study of newspaper organizations and methods. One lecture and one three-hour laboratory period each week. All written work is done on the typewriter. Work on the "Torch" with weekly conferences. Required of all members of the "Torch" staff.

Prerequisite: English 1 and 2.

Robinson.



## 134. WRITING OF THE ONE-ACT PLAY.—(C) Sem. 2. Cr. 2.

A study of the technique of the one-act play combined with practice in writing.

Alternates successively with English 62 and 124.

Dickson.

## 143. CREATIVE VERSE WRITING.—(C) Sem. 1. Cr. 2.

By special permission of instructor. A study of poetic types concentered on Amy Lowell, E. A. Robinson, Robert Frost, J. G. Neihardt, Carl Sandburg, Sara Teasdale, and Edna St. Vincent Millay. The study of modern tendencies in poetry writing with practice in creative verse writing.

Dickson.

## 144. CREATIVE VERSE WRITING.—(C) Sem. 2. Cr. 1.

Continuation of English 143.

Prerequisite: English 143.

Dickson.

## 157. SURVEY OF AMERICAN LITERATURE.—(C) Sem. 2. Cr. 2.

A survey of American literature, tracing its development in relation to national conditions and thought. Text, lectures, and reports.

Alternates with English 128.

Robinson.

## 163. ELIZABETHAN DRAMA.—(D) Sem. 1. Cr. 3.

History of the Elizabethan drama to 1642; study of the works of the chief dramatists from Lyly to Shirley.

Alternates with English 125.

Abbetmeyer.

## 165. THE AMERICAN DRAMA.—(D) Sem. 1. Cr. 2.

The development of American drama with special emphasis on its present-day tendencies.

Alternates with English 122.

(Omitted 1929-30.)

## 166. THE MODERN ENGLISH DRAMA.—(D) Sem. 2. Cr. 2.

The development of English drama during the last fifty years, with a consideration of the foreign dramatists who have influenced it.

Alternates with English 126.

Dickson.

## 167. THE NOVEL.—(D) Sem. 1. Cr. 3.

A study of some of the chief novelists of the past century from Jane Austin to the present. This course is designed to study the novel as an interpretation of life.

Alternates successively with English 111 and 170.

(Omitted 1929-30.)

## 170. SPENSER TO MILTON.—(D) Sem. 2. Cr. 3.

Critical study of the authors, exclusive of the dramatists. Milton's works and their influence on education, history, and religious, political and personal liberty will receive special attention.

Alternates successively with English 111 and 167.

Abbetmeyer.

171. MASTERPIECES OF WORLD LITERATURE.—(D) Sem. 1. Cr. 2.  
A study of typical masterpieces of world literature.  
Alternates successively with English 173 and 175.  
Robinson.
173. THE BIBLE AS LITERATURE.—(D) Sem. 1. Cr. 2.  
This course is to present the Bible as a great piece of literature. A study of the aesthetic power of the various literary forms found in it.  
Alternates successively with English 171 and 175.  
(Omitted 1929-30.)
175. CLASSICAL DRAMA IN ENGLISH TRANSLATION.—(D) Sem. 1. Cr. 2.  
A study of typical masterpieces of classical drama in English translation.  
Alternates successively with English 171 and 173.  
(Omitted 1929-30.)
191. THE TEACHING OF ENGLISH.—(D) Sem. 1 or 2. Cr. 2.  
A study of high school methods and high school problems in the teaching of English. Course specially designed for seniors majoring in English and planning to teach it in the high school. Text book, lectures, reports.  
Prerequisite: Eighteen credits of major.
195. THE ROMANTIC MOVEMENT.—(D) Sem. 1. Cr. 3.  
The rise and development of the romantic movement, the major emphasis being placed on the romantic triumph in the age of Wordsworth. Special attention given to Wordsworth, Coleridge, Byron, Keats, Shelley, and other writers of the age of Wordsworth.  
Alternates with English 196.  
Robinson.
196. THE AGE OF CLASSICISM.—(D) Sem. 1. Cr. 3.  
An analysis of what constitutes "classicism," emphasis being placed on the major writers of the age of Dryden and the age of Pope.  
Alternates with English 195.  
(Omitted 1929-30.)
198. CONTEMPORARY LITERATURE.—(D) Sem. 2. Cr. 3.  
A survey course in contemporary or present-day literature. Special emphasis will be placed on the drama.  
Alternates with English 116.  
(Omitted 1929-30.)

#### COURSES IN PUBLIC SPEAKING

The courses offered are of practical value to all students. They aim to develop accuracy of thought and speech.

- 53-54. FUNDAMENTALS OF SPEAKING.—(B) Yr. Each semester. Cr. 1.  
A course designed to secure power and ease in the presentation to a popular audience of topics of general interest. A part of the Sophomore Constant.  
Robinson.



## 101-102. PUBLIC SPEAKING.—(C) Yr. Each semester. Cr. 3.

The study and practice of the conversational mode of speaking; development of clear thinking and enunciation; pronunciation based upon phonetic principles; the diagnosis and cure of faulty speech. Original speeches, prepared for special occasions; practice in selecting, outlining, and delivering speech material. Study in delivery. The informal talk. Formal public address. Extempore speeches.

Prerequisite: English 2, or an equivalent.

Robinson.

## 103. ARGUMENTATION.—(C) Sem. 1. Cr. 3.

This course is of special value to Pre-Law students. Intensive study of analysis, evidence, kinds of evidence, kinds of argument and fallacies, brief drawing, rebuttal, and the preparation of forensics.

Prerequisite: English 2, or an equivalent.

Abbetmeyer.

## 104. DEBATE SEMINAR.—(C) Sem. 2. 0+3, Cr. 1.

Investigation of special propositions. A study of the art of debate. Practice in class drill. Designed especially to prepare for formal debate.

Prerequisite: English 103, or an equivalent.

Abbetmeyer.

## 105. VOCALIZATION AND BREATHING.—(C) Sem. 1 or 2. Cr. 1.

Exercises in correct breathing and in the proper enunciation and articulation of words. A course that is helpful in increasing one's efficiency in public speaking.

*Fee required.*

Clifford.

## THE DEPARTMENT OF FINE ARTS

## ART AND MUSIC

## A. ART

MR. HOOVEN

The aims of the section of Art are: 1. To provide for students the minimum knowledge of art that is essential for a liberal education; 2. To provide undergraduate art training suitable for the careers of artists and teachers of Art.

Major for teachers of Art: For a major 24 hours are required.

Minor: For a minor 12 hours are needed.

Before planning their courses in Art, students should consult the adviser.

It may be necessary for students contemplating later professional study or work in the field of art to take more than the regular one hundred twenty-four hours required for graduation in order to include the desired courses in Art and at the same time meet the regular requirements for the degree of Bachelor of Arts.

The remainder of the requisite 124 hours needed for graduation must be made up among the other courses in the College of Liberal Arts according to the regulations for the degree of Bachelor of Arts, in consultation with the adviser.

## COURSES IN ART

- 1-2. CAST DRAWING.—(A) Yr. Each semester. 0+6, Cr. 1.

Drawing and sketching with pencil and charcoal from the cast, in line, light and shadow.

- 5-6. STILL LIFE.—(A) Yr. Each semester. 0+6, Cr. 1.

Drawing and painting in water painting and charcoal from still life objects.

- 51-52. COMPOSITION.—(B) Yr. Each semester. 0+2, Cr. 1.

Arrangement of lines and spaces; balance.

Open to students in Industrial Art.

Prerequisites: Art 1, 2, 5, and 6.

- 55-56. STILL LIFE.—(B) Yr. Each semester. 0+6, Cr. 2.

Continuation of Art 5 and 6.

Prerequisite: Art 5 and 6.

- 59-60. SKETCH.—(B) Yr. Each semester. 0+2, Cr. 1.

Sketching with pencil and charcoal interiors.

Prerequisites: Art 1, 2, 5, and 6.

- 63-64. ILLUSTRATION.—(B) Yr. Each semester. 0+2, Cr. 1.

Problems in pictorial representation. Presenting ideas by means of form and color.

Prerequisite: Art 51 and 52.

(Omitted 1929-30.)

- 67-68. SURFACE DESIGN.—(B) Yr. Each semester. 0+2, Cr. 1.

Problems in the arrangement of black and white. Conventional forms. Original patterns.

Prerequisites: Art 1, 2, 5, and 6.

(Omitted 1929-30.)

73. PERSPECTIVE AND LETTERING.—(B) Sem. 1. 0+2, Cr. 1.

The science of perspective; reflections, cast shadows.

Principles of lettering and application to various types of work.

Prerequisite: Art. 1, 2, 5, and 6.

Alternates with Art 125.

78. LIFE.—(B) Sem. 2. 0+3, Cr. 1.

Drawing and painting in charcoal and oil.

Prerequisite: Art. 1, 2, 5, and 6.

- 101-102. COMPOSITION.—(C) Yr. Each semester. 0+2, Cr. 1.

Continuation of Art 51 and 52.

Prerequisite: Art 51 and 52.

- 105-106. LIFE.—(C) Yr. Each semester. 0+3, Cr. 1.

Continuation of Art 78.

Prerequisite: Art 78.

Alternates with Art 151 and 152.



- 109-110. SKETCH.—(C) Yr. Each semester. 0+2, Cr. 1.  
Continuation of Art 59 and 60.  
Prerequisite: Art 59 and 60.  
(Omitted 1929-30.)
- 113-114. ILLUSTRATION.—(C) Yr. Each semester. 0+2, Cr. 1.  
Continuation of Art 63 and 64.  
Prerequisite: Art 63 and 64.  
(Omitted 1929-30.)
- 116-117. HISTORY OF FINE ARTS.—(C) Yr. Each semester. 2+0, Cr. 2.  
Lecture course on the history of painting, sculpture, and architecture from the pre-Greek period to modern times.  
Alternates with Art 181 and 182.  
(Omitted 1929-30.)
119. SURFACE DESIGN.—(C) Sem. 1. 0+2, Cr. 1.  
Continuation of Art 67 and 68.  
Prerequisite: Art. 1, 2, 5, and 6.  
Alternates with Art 175.
120. POSTER DESIGN.(C) Sem. 2. 0+2, Cr. 1.  
Problems in original poster work.  
Prerequisite: Art 67 and 68.  
Alternates with Art 176.
125. BLOCK PRINTING.—(C) Sem. 1. 0+2, Cr. 1.  
Use of linoleum block in reproducing simple design.  
Alternates with Art 73.
130. INTERIOR DECORATION.—(C) Sem. 2. 0+2, Cr. 1.  
Study of the principles of interior decoration. Rendering of plans and sketches of original interiors.  
Prerequisite: Art 51, 52, 59, and 60.  
Alternates with Art 196.
134. HISTORY OF ORNAMENT.—(C) Sem. 2. 1+0, Cr. 1.  
History and evolution of the different periods of ornament.  
(Omitted 1929-30.)
138. PEN AND INK.—(C) Sem. 2. 0+2, Cr. 1.  
Drawing with pen and ink, interior and landscapes. Pen and ink technique.  
Prerequisite: Art 1, 2, and 56.  
Alternates with Art 192.
- 151-152. HISTORY OF AMERICAN ART.—(D) Yr. Each semester. 2+0, Cr. 2.  
History of American painting and sculpture.  
Prerequisite: Art 116 and 117.  
Alternates with Art 105-106.

- 157-158. LIFE.—(D) Yr. Each semester. 0+3, Cr. 2.  
Continuation of Art 105 and 106.  
Prerequisite: Art 105 and 106.  
(Omitted 1929-30.)
- 163-164. WATER COLOR.—(D) Yr. Each semester. 0+3, Cr. 1.  
Study of water color technique and rendering.  
Prerequisite: Art 1, 2, and 56.
- 175-176. DECORATIVE DESIGN.—(D) Yr. Each semester. 0+2, Cr. 1.  
Design as applied to decorative problems, book-plates, cards, and magazine headings.  
Prerequisite: Art 67, 68, and 119.  
Alternates with Art 119-120.
- 181-182. PORTRAIT.—(D) Yr. Each semester. 0+3, Cr. 1.  
Painting in oils from model, head length.  
Prerequisite: Art 105 and 106.  
Alternates with Art 116-117.  
(Omitted 1929-30.)
187. COMPOSITION.—(D) Sem. 1. 0+2, Cr. 1.  
Continuation of Art 101 and 102.  
Prerequisite: Art 101 and 102.
192. OUTDOOR SKETCHING.—(D) Sem. 2. 0+2, Cr. 1.  
Sketching with water color, pencil, and charcoal from nature, landscape, and outdoor perspective  
Prerequisite: Art 59, 60, 109, and 110.  
Alternates with Art 138.
196. COMMERCIAL ART.—(D) Sem. 2. 0+2, Cr. 1.  
Problems in commercial design; book and newspaper advertising and layouts.  
Prerequisite: Art 1, 2, 56, 59, 60, 101, and 102.  
Alternates with Art 130.
199. PUBLIC SCHOOL ART METHODS.—(D) Sem. 1. 3+0, Cr. 3.  
A teacher's course. Study plans and content matter for the teaching of drawing in the respective grades. Methods of presenting material.  
Prerequisite: Eighteen credits in Art.

## B. MUSIC

PROFESSOR CHAFFEE, MRS. HOBBS, MISS SEIDEL, MR. CLIFFORD, MRS. MORONY

The aims of the Section of Music are:

1. To provide for students taking the degree of Bachelor of Arts opportunities to understand and appreciate music as part of a liberal education;
2. To provide for students who major in music for the purpose of becoming professional performers or teachers, a four-year curriculum with a major in applied or theoretical music leading to the degree of Bachelor of Music;
3. To provide for students who desire to become supervisors and teachers of public school music, a four-year curriculum which will comply with all state requirements in both Education and Music, and lead to the degree of Bachelor of Arts.



Applied Music is the practical study of voice, violin, piano, organ, etc. Theory is a group name for harmony, counterpoint, form and analysis, composition, and allied subjects.

### Special Music Fees

In addition to the regular tuition fees, the following special music fees are charged:

One-half hour private lesson in violin or piano, \$2.00 per lesson.

One-half hour private lesson in organ, \$3.00 per lesson.

One-half hour private lesson in voice, according to teacher, \$2.00 and \$4.00 per lesson.

One-half hour private lesson in wind or popular string instruments, \$1.50 per lesson; class lessons, \$1.00 per hour lesson.

Rental of practice room with piano for one daily practice hour, \$5.00 per semester; for each additional hour, \$5.00 per semester.

Rental of organ for one hour, 30 cents; each additional hour, 30 cents.

### Unit of Credit

The unit for credit in applied music is estimated as follows:

1. Violin, Piano, Organ, etc.: One thirty-minute private lesson per week plus two hours daily practice for five days a week. Two credits per semester.

2. Wind instruments: One thirty-minute private lesson per week plus one hour daily practice for five days a week. One credit per semester.

3. Voice: One thirty-minute private lesson per week plus one hour daily practice for five days a week. One credit per semester.

*Student Recitals.*—Music students are required to attend all recitals as a part of their regular work and perform in recitals when so directed by their instructors.

## CURRICULUM IN APPLIED MUSIC WITH A MAJOR IN PIANO OR ORGAN

(Leading to the degree of Bachelor of Music.)

### Freshman Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
M. 1.	Sight Singing .....	½	M. 2.	Sight Singing .....	½
M. 3.	Ear Training .....	½	M. 4.	Ear Training .....	½
M. 5.	Harmony .....	3	M. 6.	Harmony .....	3
M. 49 P. or Or.	Applied Music .....	4	M. 50 P. or Or.	Applied Music .....	4
Eng. 1.	English .....	3	Eng. 2.	English .....	3
	Foreign Language ..	3		Foreign Language ..	3
Phys. Ed. 1.	Personal Hygiene ...	1	Phys. Ed. 2.	Personal Hygiene ...	1
Phys. Ed. 01.	Physical Education ..	0	Phys. Ed. 02.	Physical Education ..	0
		<hr/>			<hr/>
		15			15

## Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 51.	Sight Singing .....	½	M. 52.	Sight Singing .....	½
M. 53.	Ear Training .....	½	M. 54.	Ear Training .....	½
M. 55.	Harmony .....	2	M. 56.	Harmony .....	2
M. 57.	Keyboard Harmony..	1	M. 58.	Keyboard Harmony..	1
M. 59.	Music History .....	2	M. 60.	Music History .....	2
M. 99 P.or Or.	Applied Music .....	4	M. 100 P.or Or.	Applied Music .....	4
Eng. 51.	Types of Literature..	2	Eng. 52.	Types of Literature..	2
	Foreign Language ..	3		Foreign Language ..	3
Phys. Ed. 051.	Physical Education ..	0	Phys. Ed. 052.	Physical Education ..	0
		15			15

## Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 101.	Harmony .....	2	M. 102.	Harmony .....	2
M. 103.	Keyboard Harmony..	1	M. 104.	Keyboard Harmony..	1
M. 105.	Counterpoint .....	2	M. 106.	Counterpoint .....	2
M. 107.	Form and Analysis..	2	M. 108.	Form and Analysis..	2
M. 149 P.or Or.	Applied Music .....	4	M. 150 P.or Or.	Applied Music .....	4
	Liberal Arts elective.	3		Liberal Arts elective	3
	*Music elective .....	3		*Music elective .....	3
		17			17

## Senior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 151.	Composition .....	2	M. 152.	Composition .....	2
M. 153.	Instrumentation ....	2	M. 154.	Instrumentation ....	2
M. 195.	Senior Recital .....	3	M. 196.	Senior Recital .....	3
M. 199 P.or Or.	Applied Music .....	4	M. 200 P.or Or.	Applied Music .....	4
	†Music elective .....	4		†Music elective .....	4
		15			15

Ensemble is required each year: In the freshman and sophomore years without credit; in the junior and senior years with credit. The total credit in ensemble toward a degree cannot exceed four credits.

One hundred twenty-four credit hours are required for the degree of Bachelor of Music.

\*Junior electives: Chorus, Orchestra, Band, Glee Club, Music 113, 114, 115, 116, and a second applied study not exceeding eight semester hours toward a degree. The second applied study is subject to extra fees.

†Senior electives: Chorus, Orchestra, Band, Glee Club, Music 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, and a second applied subject not exceeding eight semester hours toward a degree. The second applied study is subject to extra fees.



## COURSES IN APPLIED MUSIC

## Piano

CHAFFEE

Upon entering the piano curriculum piano students must demonstrate by examination the completion of the following or the equivalent: Heller Études Op. 46, Loeschorn Op. 66, the easier Haydn and Mozart Sonatas.

49-50P. PIANO.—(A) Yr. Each semester. Cr. 4.

Relaxation is stressed in the various technical exercises; variety of touches used in playing scales, arpeggios, and chords. Études used are Op. 299 Czerny, Op. 46 Heller, Op. 66 Loeschhorn, Inventions, Bach. To Spring, Butterfly and March of the Dwarfs by Grieg, Dance Rustique and Spring Dawn by Mason, Polish Dance by Scharwenka.

49½-50½P. PIANO.—(A) Yr. Each semester. Cr. 2.

A reasonable amount of the material covered in Music 49-50P.

99-100P. PIANO.—(B) Yr. Each semester. Cr. 4.

Hanon, Virtuoso Studies, Tausig-Ehrlich, Daily Studies; Czerny, Op. 740 and Cramer-Bulow, Études; Grieg, E. Minor Sonata; Beethoven, C. Minor Sonata; Chopin, Preludes, Mendelssohn, Rondo Capriccioso.

Prerequisite: Music 49-50P.

99½-100½P. PIANO.—(B) Yr. Each semester. Cr. 2.

A reasonable amount of the material covered in Music 99-100P.

Prerequisite: Music 49½-50½P.

149-150P. PIANO.—(C) Yr. Each semester. Cr. 4.

Moscheles, Op. 70; Clementi, Gradus ad Parnassum; Schumann, Op. 12 and Novellette, Op. 21; Chopin, Ballads; Bach, Preludes and Fugues; Brahms, Rhapsodies and pieces of equal difficulty.

Prerequisite: Music 99-100P.

149½-150½P. PIANO.—(C) Yr. Each semester. Cr. 2.

A reasonable amount of the material covered in Music 149-150P.

Prerequisite: Music 99½-100½P.

199-200P. PIANO.—(D) Yr. Each semester. Cr. 4.

Chopin, Études; Rubinstein, Études; Schubert-Tausig, Military March; Sonatas and Concertos by classic and romantic writers.

Prerequisite: Music 149-150P.

199½-200½P. PIANO.—(D) Yr. Each semester. Cr. 2.

A reasonable amount of the material covered in Music 199-200P.

Prerequisite: Music 149½-150½P.

195-196P. SENIOR RECITAL.—(D) Yr. Each semester. Cr. 3.

A recital must be played without notes at the end of the senior year. A sonata or concerto, besides groups of smaller compositions will comprise the program.

Prerequisite: Music 200P.



## Organ

## MORONY

Upon entering the organ curriculum organ students must demonstrate by examination the completion of the piano requirements stated above. Organ and piano are usually studied together, since a firm and well established piano technic is a necessity for good organ playing. At the discretion of the adviser, students majoring in organ may be assigned to take one lesson per week in piano as a substitute for one of the two lessons per week in organ during the last three years.

49-50Or. ORGAN.—(A) Yr. Each semester. Cr. 4.

Bach, Book II: Prelude and Fugues in E-minor, C-minor and D-minor.  
D'Every: Meditation Toccata. Guilman: Sonata in C-minor Op. 56.  
Salome: Symphonic Allegro. Schneider: Pedal studies.

49½-50½Or. ORGAN.—(A) Yr. Each semester. Cr. 2.

A reasonable amount of the work outlined in Music 49-50Or.

99-100Or. ORGAN.—(B) Yr. Each semester. Cr. 4.

Instruction in church service playing, accompanying for hymns, solos, masses, cantatas, oratorios, and anthems. Dudley Buck: Pedal Studies. Bach: Book VI, Prelude and Fugues in D-major; Book III, Prelude and Fugues in A-major. Guilman: Sonata in D-minor Op. 61. Mendelssohn: Notturmo. Hollins: Concert Overture C-major. Faulkes: Sonata in D-minor.

Prerequisite: Music 49-50Or.

99½-100½Or. ORGAN.—(B) Yr. Each semester. Cr. 2.

A reasonable amount of the work outlined in 99-100Or.

Prerequisite: Music 49½-50½Or.

149-150Or. ORGAN.—(C) Yr. Each semester. Cr. 4.

Pfritzer: Pedal Studies. Bach: Book VII, Prelude and Fugue in B-minor; Book VI, Prelude and Fugue in A-major. Dubois: Toccata in G-major. Hollins: Concert Overture C-minor. Boellmann: Suite Gothique. Guilman: Sonata in D-major Op. 50. Batiste: Offertoire.

Prerequisite: Music 99-100Or.

149½-150½Or. ORGAN.—(C) Yr. Each semester. Cr. 2.

A reasonable amount of the work outlined in Music 149-150Or.

Prerequisite: Music 99½-100½Or.

199-200Or. ORGAN.—(D) Yr. Each semester. Cr. 4.

Nilson: Pedal Studies. Bach: Book X, Toccata and Fugue in D-minor; Book XII, Fantasia and Fugue in A-minor. Saint-Saens: Rhapsodies Nos. 1, 2, and 3. Dudley Buck: Sonata in G-minor. Widor: Symphony No. 4. Guilman: Sonata D-minor Op. 42. Dethier: Passacaglia.

Prerequisite: Music 149-150Or.

199½-200½Or. ORGAN.—(D) Yr. Each semester. Cr. 2.

A reasonable amount of the work outlined in Music 199-200Or.

Prerequisite: Music 149½-150½Or.



195-196Or. SENIOR RECITAL.—(D) Yr. Each semester. Cr. 3.

The student gives a public recital some time during his senior year including selections from the following: Bach's Preludes and Fugues, a Sonata by a standard composer, selections from the most important works by modern composers.

Prerequisite: Music 200Or.

### CURRICULUM IN APPLIED MUSIC WITH A MAJOR IN VIOLIN (Leading to the degree of Bachelor of Music)

This curriculum is also applicable to students with a major in other orchestral instruments.

#### Freshman Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 1.	Sight Singing .....	½	M. 2.	Sight Singing .....	½
M. 3.	Ear Training .....	½	M. 4.	Ear Training .....	½
M. 5.	Harmony .....	3	M. 6.	Harmony .....	3
M. 49Vi.	Violin .....	4	M. 50Vi.	Violin .....	4
Engl. 1.	English .....	3	Engl. 2.	English .....	3
	Foreign Language ..	3		Foreign Language ..	3
Phys. Ed. 1.	Personal Hygiene ...	1	Phys. Ed. 2.	Personal Hygiene ...	1
Phys. Ed. 01.	Physical Education ..	0	Phys. Ed. 02.	Physical Education ..	0
		—			—
		15			15

#### Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 51.	Sight Singing .....	½	M. 52.	Sight Singing .....	½
M. 53.	Ear Training .....	½	M. 54.	Ear Training .....	½
M. 55.	Harmony .....	2	M. 56.	Harmony .....	2
M. 57.	Keyboard Harmony..	1	M. 58.	Keyboard Harmony..	1
M. 59.	Music History .....	2	M. 60.	Music History .....	2
M. 99Vi.	Violin .....	4	M. 100Vi.	Violin .....	4
Engl. 51.	Types of Literature..	2	Engl. 52.	Types of Literature..	2
	Foreign Language ..	3		Foreign Language ..	3
Phys. Ed. 051.	Physical Education ..	0	Phys. Ed. 052.	Physical Education ..	0
		—			—
		15			15

#### Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 101.	Harmony .....	2	M. 102.	Harmony .....	2
M. 103.	Keyboard Harmony..	1	M. 104.	Keyboard Harmony..	1
M. 105.	Counterpoint .....	2	M. 106.	Counterpoint .....	2
M. 107.	Form and Analysis..	2	M. 108.	Form and Analysis..	2
M. 149Vi.	Violin .....	4	M. 150Vi.	Violin .....	4
	Liberal Arts elective.	3		Liberal Arts elective.	3
	*Music elective .....	3		*Music elective .....	3
		—			—
		17			17

\*See note on Junior electives under Piano and Organ curriculum.

## Senior Year

<i>First Semester</i>		<i>Cr.</i>	<i>Second Semester</i>		<i>Cr.</i>
M. 151.	Composition .....	2	M. 152.	Composition .....	2
M. 153.	Instrumentation .....	2	M. 154.	Instrumentation .....	2
M. 195.	Senior Recital .....	3	M. 196.	Senior Recital .....	3
M. 199Vi.	Violin .....	4	M. 200Vi.	Violin .....	4
	†Music elective .....	4		†Music elective .....	4
		—			—
		15			15

Orchestra is required each year. See note on ensemble credit under Piano and Organ curriculum.

One hundred twenty-four credit hours are required for the degree of Bachelor of Music.

## Violin

SEIDEL

Upon entering the violin curriculum students must demonstrate by examination that they are well grounded in correct position, intonation, tone, and bowing and that they have completed the following or the equivalent: The first six Pleyel Duos Op. 8 for two violins, Kayser Op. 20. Book II (omitting numbers 20 and 22).

49-50Vi. VIOLIN.—(A) Yr. Each semester. Cr. 4.

Hubert Reiss Violin School, Bk. 2 (beginning with second position studies). Hans Sitt Scale Studies (supplementary to Schradieck). Sevcik Changes of Position. Dancas Airs Varies Op. 89. Pieces by Mozart—Papini—Dancs—Bohm, Raff, etc. (A graceful, natural, and effective method of holding the violin and bow, as well as in the general playing position of the student is insisted upon.)

49½-50½Vi. VIOLIN.—(A) Yr. Each semester. Cr. 2.

A reasonable amount of the material covered in Music 49-50Vi.

99-100Vi. VIOLIN.—(B) Yr. Each semester. Cr. 4.

Hans Sitt Scales continued. Casorti—Technics of the Bow, Mazas Op. 36, Book 1. Kreutzer's 42 Etudes (omitting No. 1 and the double stop Etudes). The pupil should begin to show some skill. Bowing and intonation will be sharply criticised. Solos by classic and modern composers. Concertos Accolay. Prerequisite: Music 50.

99½-100½Vi. VIOLIN.—(B) Yr. Each semester. Cr. 2.

A reasonable amount of the material covered in Music 99-100Vi.  
Prerequisite: Music 49½-50½Vi.

149-150Vi. VIOLIN.—(C) Yr. Each semester. Cr. 4.

Herman preparatory double stop Etudes. Kreutzer double stop Etudes. Mazas Op. 36 Bk. II. Sonatas by Handel, Mozart, etc.; Concertos by Dancs, Nardini, Seitz, etc. Pieces of corresponding difficulty to meet needs and style of student.

Prerequisite: Music 100Vi.

†See note on Senior electives under Piano and Organ curriculum.



149½-150½Vi. VIOLIN.—(C) Yr. Each semester. Cr. 2.

A reasonable amount of the material covered in Music 149-150Vi.

Prerequisite: Music 99½-100½Vi.

199-200Vi. VIOLIN.—(D) Yr. Each semester. Cr. 4.

Fiorillo, Rode, Kreutzer, Ravell, Gavinie, Concertos by Deberiot, Viotti, Mozart.

Prerequisite: Music 150Vi.

199½-200½Vi. VIOLIN.—(D) Yr. Each semester. Cr. 2.

A reasonable amount of the material covered in Music 199-200Vi.

Prerequisite: Music 149½-150½Vi.

195-196Vi. SENIOR RECITAL.—(D) Yr. Each semester. Cr. 3.

A Senior Recital program is given, selected by the instructor, the numbers depending largely upon the ability and style of the individual student. A sonata, concerto and groups of the more important works of standard classic and modern composers will comprise the program.

Prerequisite: Music 200Vi.

### CURRICULUM IN APPLIED MUSIC WITH A MAJOR IN VOICE CULTURE

(Leading to the degree of Bachelor of Music)

#### Freshman Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 1.	Sight Singing .....	½	M. 2.	Sight Singing .....	½
M. 3.	Ear Training .....	½	M. 4.	Ear Training .....	½
M. 5.	Harmony .....	3	M. 6.	Harmony .....	3
7.	Music Appreciation..	2	8.	Art Appreciation ....	2
M. 49P.	Piano .....	2	M. 50P.	Piano .....	2
M. 49Vo.	Voice .....	1	M. 50Vo.	Voice .....	1
Engl. 1.	English .....	3	Engl. 2.	English .....	3
	Foreign Language ..	3		Foreign Language ..	3
Phys. Ed. 1.	Personal Hygiene ...	1	Phys. Ed. 2.	Personal Hygiene ...	1
Phys. Ed. 01.	Physical Education ..	0	Phys. Ed. 02.	Physical Education ..	0
		16			16

#### Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 51.	Sight Singing .....	½	M. 52.	Sight Singing .....	½
M. 53.	Ear Training .....	½	M. 54.	Ear Training .....	½
M. 55.	Harmony .....	2	M. 56.	Harmony .....	2
M. 57.	Keyboard Harmony..	1	M. 58.	Keyboard Harmony..	1
M. 59.	Music History .....	2	M. 60.	Music History .....	2
M. 99P.	Piano .....	2	M. 100P.	Piano .....	2
M. 99Vo.	Voice .....	2	M. 100Vo.	Voice .....	2
Engl. 51.	Types of Literature..	2	Engl. 52.	Types of Literature..	2
	Foreign Language ..	3		Foreign Language ..	3
Phys. Ed. 051.	Physical Education ..	0	Phys. Ed. 052.	Physical Education ..	0
		15			15

## Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 101.	Harmony .....	2	M. 102.	Harmony .....	2
M. 103.	Keyboard Harmony..	1	M. 104.	Keyboard Harmony..	1
M. 105.	Counterpoint .....	2	M. 106.	Counterpoint .....	2
M. 107.	Form and Analysis..	2	M. 108.	Form and Analysis..	2
M. 149Vo.	Voice .....	2	M. 150Vo.	Voice .....	2
	Liberal Arts elective.	3		Liberal Arts elective.	3
	*Music elective .....	4		*Music elective .....	4
		—			—
		16			16

## Senior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 151.	Composition .....	2	M. 152.	Composition .....	2
M. 195.	Recital .....	3	M. 196.	Recital .....	3
M. 199.	Voice .....	2	M. 200Vo.	Voice .....	2
P. S. 101.	Public Speaking ....	3	P. S. 102.	Public Speaking ....	3
	†Music elective .....	5		†Music elective .....	5
		—			—
		15			15

Chorus is required each year. See note on ensemble credit under piano and organ curriculum.

One hundred twenty-four credit hours are required for the degree of Bachelor of Music.

Piano requirement: Students with a major in voice must present, for graduation, work in piano equivalent to third grade proficiency.

## Voice

CLIFFORD and HOBBS

49-50Vo. VOICE.—(A) Yr. Each semester. Cr. 1.

Breath control; tone production; correct diction; vocalises involving major and minor scales, simple arpeggios, embellishments and phrasing. Concone, Marzo, Sieber or Marchesi.

99-100Vo. VOICE.—(B) Yr. Each semester. Cr. 2.

Continued work in technic of breathing, tone placing and phrasing. Selected arias from operas and oratorios. Art songs. Easy ensemble numbers.

Prerequisite: Music 50Vo.

99½-100½Vo. VOICE.—(B) Yr. Each semester. Cr. 1.

A reasonable amount of the material outlined in Music 99-100Vo.

Prerequisite: Music 49-50Vo.

\*See note on junior electives under piano and organ curriculum.

†See note on senior electives under piano and organ curriculum. In addition the student may elect Music 153 and 154.



149-150Vo. VOICE.—(C) Yr. Each semester. Cr. 2.

Further drill in vocal technic. Songs of advanced grade from classic and modern composers. Ensemble singing from standard operas, oratorios, and cantatas. Student and public recitals.

Prerequisite: Music 100Vo.

149½-150½Vo. VOICE.—(C) Yr. Each semester. Cr. 1.

A reasonable amount of the material outlined in Music 149-150Vo.

Prerequisite: Music 99½-100½Vo.

199-200Vo. VOICE.—(D) Yr. Each semester. Cr. 2.

An extensive repertoire from best song literature. Performance of one complete role from a standard opera or oratorio.

Prerequisite: Music 150Vo.

199½-200½Vo. VOICE.—(D) Yr. Each semester. Cr. 1.

A reasonable amount of the material outlined in Music 199-200Vo.

Prerequisite: Music 149½-150½Vo.

195-196Vo. RECITAL.—(D) Yr. Each semester. Cr. 3.

Senior Recital including an aria, a group of classic songs and a group of modern songs. Recital to count as final examination.

Prerequisite: Music 200Vo.

### COURSE IN THEORY

Curriculum in Theory and Composition leading to the degree of Bachelor of Music.

(Subject to freshman entrance requirements in Piano)

#### Freshman Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 1.	Sight Singing .....	½	M. 2.	Sight Singing .....	½
M. 3.	Ear Training .....	½	M. 4.	Ear Training .....	½
M. 5.	Harmony .....	3	M. 6.	Harmony .....	3
M. 49.	Applied Music .....	4	M. 50.	Applied Music .....	4
Engl. 1.	English .....	3	Engl. 2.	English .....	3
	Foreign Language ..	3		Foreign Language ..	3
Phys. Ed. 1.	Personal Hygiene ...	1	Phys. Ed. 2.	Personal Hygiene ...	1
Phys. Ed. 01.	Physical Education ..	0	Phys. Ed. 02.	Physical Education ..	0
		15			15

#### Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 51.	Sight Singing .....	½	M. 52.	Sight Singing .....	½
M. 53.	Ear Training .....	½	M. 54.	Ear Training .....	½
M. 55.	Harmony .....	2	M. 56.	Harmony .....	2
M. 57.	Keyboard Harmony..	1	M. 58.	Keyboard Harmony..	1
M. 59.	Music History .....	2	M. 60.	Music History .....	2
M. 99.	Applied Music .....	4	M. 100.	Applied Music .....	4
Engl. 51.	Types of Literature..	2	Engl. 52.	Types of Literature..	2
	Foreign Language ..	3		Foreign Language ..	3
Phys. Ed. 051.	Physical Education ..	0	Phys. Ed. 052.	Physical Education ..	0
		15			15

## Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 101.	Harmony .....	2	M. 102.	Harmony .....	2
M. 103.	Keyboard Harmony..	1	M. 104.	Keyboard Harmony..	1
M. 105.	Counterpoint .....	2	M. 106.	Counterpoint .....	2
M. 107.	Form and Analysis..	2	M. 108.	Form and Analysis..	2
M. 113.	Choral Composition..	2	M. 114.	Choral Composition..	2
	Liberal Arts electives	2		Liberal Arts electives	2
	*Music electives .....	4		*Music electives .....	4
		<hr/>			<hr/>
		15			15

## Senior Year

(Omitted in 1929-30)

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
M. 151.	Composition .....	2	M. 152.	Composition .....	2
M. 157.	Counterpoint .....	2	M. 158.	Counterpoint .....	2
M. 159.	Harmonic Analysis ..	2	M. 160.	Harmonic Analysis ..	2
M. 161.	Orchestration .....	2	M. 162.	Orchestration .....	2
M. 163.	Teaching of Theory.	2	M. 164.	Teaching of Theory.	2
M. 197.	Thesis or Original		M. 198.	Thesis or Original	
	Composition .....	3		Composition .....	3
	†Music elective .....	4		†Music elective .....	4
		<hr/>			<hr/>
		17			17

## CURRICULUM IN PUBLIC SCHOOL MUSIC

(Leading to the degree of Bachelor of Arts, with a major in Public School Music.)

## Freshman Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Freshman Constant ..		14	Freshman Constant ..		14
M. 1.	Sight Singing .....	½	M. 2.	Sight Singing .....	½
M. 3.	Ear Training .....	½	M. 4.	Ear Training .....	½
M. 49Vo.	Voice .....	1	M. 50Vo.	Voice .....	1
		<hr/>			<hr/>
		16			16

\*Junior electives: Chorus, Band, Orchestra, Glee Club, Music 115, 116, 153, 154, and a second applied study not exceeding eight semester hours to apply toward a degree. The second applied study is subject to extra fees.

†Senior electives: Chorus, Band, Orchestra, Glee Club, Music 165, 166 and a second applied study not to exceed eight semester hours to apply toward a degree. The second applied study is subject to extra fees. One hundred twenty-four credit hours are required for the degree of Bachelor of Music.



## Sophomore Year

First Semester		Cr.	Second Semester		Cr.
	Sophomore Constant.	6		Sophomore Constant.	6
Psy. 51.	General Psychology..	3	Psy. 52.	Educational Psychol-	
M. 53.	Ear Training .....	½		ogy .....	3
M. 5.	Harmony .....	3	M. 54.	Ear Training .....	½
M. 99½Vo.	Voice .....	1	M. 6.	Harmony .....	3
	*Elective .....	2	M. 100½Vo.	Voice .....	1
		—		*Elective .....	2
		15½			15½

## Junior Year

First Semester		Cr.	Second Semester		Cr.
Ed. 113.	General History of		Ed. 119.	Secondary Education.	3
	Education .....	3	Phys. 52.	General Physics ....	4
Phys. 51.	General Physics ....	4	M. 56.	Harmony .....	2
M. 55.	Harmony .....	2	M. 60.	History of Music ..	2
M. 59.	History of Music ..	2	M. 150½Vo.	Voice .....	1
M. 149½Vo.	Voice .....	1	M. 110.	Elementary P. S.	
M. 109.	Elementary P. S.			Methods (see Ed.	
	Methods (see Ed.			191) .....	3
	191) .....	3	M. 112.	Appreciation of Ele-	
M. 111.	Appreciation of Ele-			mentary School	
	mentary School			Music .....	0
	Music .....	0		*Elective .....	1
	*Elective .....	1			16
		16			

## Senior Year

First Semester		Cr.	Second Semester		Cr.
Ed. 151.	Principles of Teaching	3	Ed. 191.	Supervised Teaching.	3
M. 153.	Instrumentation and		M. 154.	Instrumentation and	
	Conducting .....	2		Conducting .....	2
M. 199.	Applied Music .....	2	M. 200.	Applied Music .....	2
M. 155.	Orchestral Instrument	1	M. 156.	Orchestral Instrument	1
M. 191.	High School Music		M. 192.	High School Music	
	Methods (see Ed.			Methods (see Ed.	
	191) .....	2		191) .....	2
M. 193.	Appreciation of High		M. 194.	Appreciation of High	
	School Music ....	0		School Music ....	0
	*Elective .....	6		*Elective .....	6
		16			16

Ensemble is required each year. See note on ensemble credit under piano and organ curriculum.

Piano required: Students with a major in Public School Music must present for graduation work in piano equivalent to third grade proficiency.

One hundred twenty-four credit hours are required for the degree of Bachelor of Arts with a major in Public School Music.

\*Electives are to be chosen from the following: Foreign Language; English 55, 56, 116, 122, 143, 157; History 51, 52, 131, 132; Political Science 51, 52; Sociology 51, 52.

## COURSES IN THE THEORY OF MUSIC

1-2. SIGHT SINGING.—(A) Yr. Each semester. Cr.  $\frac{1}{2}$ .

Drill in scale and interval singing. Easy time subdivisions. Notation. Two-part singing. One and one-half hours a week per semester for one year.

Hobbs.

3-4. EAR TRAINING.—(A) Yr. Each semester. Cr.  $\frac{1}{2}$ .

Major and minor scales; intervals and elementary rhythmic problems. A study in writing different kinds of measures by hearing them played or sung. Melodic and harmonic intervals and simple chromatic problems. One and one-half hours a week per semester for one year.

Chaffee.

## 5-6. HARMONY.—(A) Yr. Each semester. Cr. 3.

A course in writing scale, intervals, and the different triads. The harmonizations of easy melodies with the principal triads. The principal dissonant chords and their resolution in the harmonization of melodies. The use of secondary triads and easy modulations.

Chaffee.

51-52. SIGHT SINGING.—(B) Yr. Each semester. Cr.  $\frac{1}{2}$ .

Motives and short phrases. Two and three part exercises and simple modulation. Exercises in period writing; a study of chords. One and one-half hours a week per semester for one year.

Prerequisite: Music 142.

Hobbs.

53-54. EAR TRAINING II.—(B) Yr. Each semester. Cr.  $\frac{1}{2}$ .

Continuation of Music 3 and 4. One and one-half hours a week per semester for one year.

Prerequisite: Music 3 and 4.

Chaffee.

## 55-56. HARMONY.—(B) Yr. Each semester. Cr. 2.

Secondary seventh chords and their inversions. Altered chords, chromatic melodies, passing notes, suspensions, advanced modulation, and the harmonization of chorals.

Prerequisite: Music 5 and 6.

Chaffee.

## 57-58. KEYBOARD HARMONY.—(B) Yr. Each semester. Cr. 1.

Practical application of the triads of the first year harmony at the keyboard. Chord progressions, cadence formulas, and key circle sequences, making use of the scale triads.

Prerequisite: Music 5-6.

Chaffee.

## 59-60. HISTORY OF MUSIC.—Yr. Each semester. Cr. 2.

Music of primitive nations. The music and instruments of the Bible. Music of the early Christian Church. Rise and development of the liturgy. Notation. Music and the Renaissance. The polyphonic age. The rise of opera and oratorio. The periods of Bach and Handel, Haydn and Mozart. The advent of Beethoven. The rise of virtuosity and romanticism. Wag-



ner and the new operative tendencies. American music development. Col-  
lateral reading, preparation of themes, and outlines during both semesters.  
Hobbs.

101-102. HARMONY.—(C) Yr. Each semester. Cr. 2.

Double passing notes and double suspensions. Harmonizations of  
enharmonic chromatic scale upwards and downwards. Original sequences  
using above material. Harmonization of chords continued.

Prerequisite: Music 55-56.

Chaffee.

103-104. KEYBOARD HARMONY.—(C) Yr. Each semester. Cr. 1.

Many of the principles of the second year harmony are applied.  
Dominant sevenths, and diminished seventh chords. Modulating key-  
circle sequences. Extended cadence formulas with chromatic changes.

Prerequisite: Music 57-58.

Chaffee.

105-106. COUNTERPOINT.—(C) Yr. Each semester. Cr. 2.

Counterpoint in two, three, and four parts in the various species.  
This course enables the student to secure facility in composition and is  
also valuable from an historical and artistic standpoint.

Prerequisite: Music 55-56.

Chaffee.

107-108. FORM AND ANALYSIS.—(C) Yr. Each semester. Cr. 2.

A study of the structure and aesthetic content of music. Primary and  
contrapuntal forms. Chord analysis. Small instrumental forms with ex-  
amples from Schubert, Mendelssohn, Grieg, etc. Simple and compound  
primary forms. Preludes, inventions, and dance forms of Bach; rondo,  
theme with variations, art song.

Prerequisite: Music 5-6.

109-110. ELEMENTARY SCHOOL MUSIC METHODS.—(C) Yr. Each  
semester. Cr. 3.

A teacher's course. Music in the primary grades: Selection and  
presentation of rote songs; The child voice in singing; The monotone;  
The introduction of staff notation; Simple rhythms; Music in the inter-  
mediate grades; further music-reading introducing tonal and rhythmic  
problems.

Hobbs.

111-112. APPRECIATION OF ELEMENTARY SCHOOL MUSIC.—(C)  
Yr. Each semester. No credit.

A teacher's course. To promote the understanding and enjoyment  
of good music is the aim of musical education in the schools. This course  
acquaints the student with the problems and best methods of cultivating  
musical appreciation in elementary school children.

Hobbs.

113-114. CHORAL COMPOSITION.—(C) Yr. Each semester. Cr. 2.

Exercises in the application of both poetry and prose to musical  
forms. Hymn tunes, duets, trios, quartettes for various combinations of

voices. The hymn anthem, the full anthem, the solo anthem. Cantatas with piano or organ accompaniment.

Prerequisite: Music 55-56.

(Given upon sufficient demand.)

Chaffee.

115-116. HISTORY OF MUSIC.—(C) Yr. Each semester. Cr. 2.

A more detailed and comprehensive study of the development of music; national schools of music; recent contemporary composers. Collateral reading, preparation of themes and outlines during both semesters.

Prerequisite: Music 59-60.

Hobbs.

151-152. COMPOSITION.—(D) Yr. Each semester. Cr. 2.

Exercises in writing sections, phrases, periods, small two and three part primary forms and large two and three part primary forms.

Prerequisite: Music 55-56; 107-108.

Chaffee.

153-154. INSTRUMENTATION AND CONDUCTING.—(D) Yr. Each semester. Cr. 2.

Development of the orchestra and orchestral instruments. Explanation of all orchestral instruments, compasses, characteristics, tonal effects, etc.; the making and reading of orchestral scores; the arranging and scoring of the simpler forms. The fundamentals of conducting with individual practice.

Seidel.

155-156. ORCHESTRAL INSTRUMENT.—(D) Yr. Each semester. Cr. 1.

Applied work in stringed or wind instruments as preparation for conducting school bands and orchestras.

*Fee required.*

Seidel.

157-158. COUNTERPOINT.—(D) Yr. Each semester. Cr. 2.

Review of the general laws of harmonic and melodic progression. Imitative counterpoint and double counterpoint.

Prerequisite: Music 105-106.

(Omitted 1929-30.)

159-160. HARMONIC ANALYSIS.—(D) Yr. Each semester. Cr. 2.

An analytical and experimental study of extended modulation, modal writing and chromatic harmony.

Prerequisite: Music 107-108.

(Omitted 1929-30.)

161-162. ORCHESTRATION.—(D) Yr. Each semester. Cr. 2.

The writing and arranging of duets, trios, quartettes, etc., for different combinations of orchestral instruments. Arranging for complete orchestra; reading of orchestral scores.

Prerequisite: Music 153-154.

Seidel.



## 163-164. TEACHING OF THEORY.—(D) Yr. Each semester. Cr. 2.

A course in supervised teaching dealing with the materials at the teacher's disposal for the accomplishment of various purposes.

(Omitted 1929-30.)

## 165-166. ADVANCED HARMONY.—(D)

Melodic figuration; general principles of modulation; florid melodies; appoggiaturas and anticipations; the inverted suspension.

Prerequisite: Music 101-102.

(Omitted 1929-30.)

## 191-192. HIGH SCHOOL MUSIC METHODS.—(D) Yr. Each sem. Cr. 2.

A teacher's course. Music in Junior and Senior High School. The adolescent voice. Testing and classification of voices. Selection of suitable material. More difficult rhythmic problems. Two and three part singing. Public performances. School assembly. Programs. Qualifications of a supervisor. School music problems.

Prerequisite: Music 61-62.

Hobbs.

## 193-194. HIGH SCHOOL MUSIC APPRECIATION.—(D) Yr. Each semester. No credit.

A teacher's course. Different methods of presentation; rhythm; melody; harmony, program music; the Orchestra; composers; cultured rondo, theme with variations, art song.

Prerequisite: Music 63-64.

Hobbs.

## 197-198. THESIS OR ORIGINAL COMPOSITION.—(D) Yr. Each semester. Cr. 3.

(Omitted 1929-30.)

## ENSEMBLE

The musical organizations are open to all students who can qualify. Credits for ensemble may be used as electives in junior and senior years.

## M. 1E. THE UNIVERSITY SYMPHONY ORCHESTRA.—Each semester. Cr. ½.

All students who play orchestral instruments are admitted after consultation with director.

Membership is required of all students of stringed instruments, at the discretion of the director of the violin section. Regular attendance at rehearsals and concerts is obligatory. The best standard orchestral compositions, symphonies, overtures, etc., are studied and publicly performed in concert. Full rehearsals are held Thursdays: 7:30-9:30 P. M.; sectional rehearsals as arranged.

## M. 2E. THE UNIVERSITY CHORUS.—Each semester. Cr. ½.

The chorus is open to all students. It is required of all voice students, public music students, students in elementary education and members of glee clubs. Regular attendance is obligatory.

A standard work is studied each semester. Two-hour weekly rehearsals are held.



**M. 3E. THE UNIVERSITY BAND.**—Each semester. Cr. 0.

The Band is open to all students who can qualify. Attendance at rehearsals and performances is required. The band takes part at all the football and basketball games as well as other activities. A two-hour weekly rehearsal is held.

**M. 4E. WOMEN'S GLEE CLUB.**—Each semester. Cr. ½.

Membership is obtained by try-out. Attendance is required. Secular and sacred programs are prepared and presented each year. Rehearsal hours will be arranged.

**M. 5E. MEN'S GLEE CLUB.**—Each semester. Cr. ½.

The Club is open to students who can qualify. Attendance is required. Choruses and selections from the best composers are studied and presented each year. Hours will be arranged.

**QUARTETTES, TRIOS, ETC.**—No credit.

Groups of students selected from the Glee Clubs rehearse quartettes, trios, etc., under the instruction of the voice teacher and furnish special music for assembly and chapel exercises.

**CHAPEL CHOIRS.**—No credit.

Groups of mixed voices lead the singing of the chapel service and also render suitable anthems.

### MUSIC STUDY WITH CREDIT TOWARD THE BACHELOR OF ARTS DEGREE

Students in the College of Liberty Arts who desire to take training in Music may do so, without extra charge, under the following conditions:

The studies in Music listed below will be accepted for credit in the College of Liberal Arts toward the degree of Bachelor of Arts up to a total of 30 credit-hours, but not more than 2 credit-hours may be taken in either semester of the Freshman Year, nor more than 5 credit-hours in either semester of the Sophomore or Junior Year. Such students should select their work in approximately the following order: Music Courses 1, 2, 3, 4, 5, 6, 51, 52, 53, 54, 55, 56, 59, 60, 101, 102, 105, 106, 107, 108, 115, 116, 151, 152, 153, 154.

Students who desire courses in Music mainly for general cultural education are advised to take their work in approximately the following order: Music 5, 6, 55, 56, 59, 60, 101, 102, 105, 106, 107, 108.

### THE DEPARTMENT OF FOREIGN LANGUAGES AND LITERATURES (French, German, Spanish—Greek, Latin)

ASSOCIATE PROFESSOR KISSLING, ASSISTANT PROFESSOR MILLER, MISS HOUGH

#### FRENCH HOUGH

**Major:** The minimum for a major is 24 credit hours. A prerequisite is French 12, or the equivalent. Students majoring in French are advised to elect courses in European History.

**Minor:** A minor consists of a minimum of 12 hours. A prerequisite is French 12, or the equivalent.



## COURSES IN FRENCH

1. FIRST SEMESTER FRENCH.—(A) Sem. 1. Cr. 3.  
Study of pronunciation by means of phonetic symbols. Grammar taught inductively, with much conversation and dictation; daily written work.
2. SECOND SEMESTER FRENCH.—(A) Sem. 2. Cr. 3.  
Study of grammar, with emphasis upon the verb; reading of simple texts.  
Prerequisite: French 1, or 1 unit of high school French.
11. THIRD SEMESTER FRENCH.—(A) Sem. 1. Cr. 3.  
Systematic review of grammar, with oral and written compositions. Study of irregular verbs. Reading of modern authors.  
Prerequisite: French 2, or 2 units of high school French.
12. FOURTH SEMESTER FRENCH.—(A) Sem. 2. Cr. 3.  
Continuation of French 11.  
Prerequisite: French 11, or its equivalent.
51. SURVEY OF FRENCH LITERATURE.—(B) Sem. 1. Cr. 3.  
Study of the origins of the French language and the development of literature with detailed study of seventeenth century literature. Collateral assignments, reading in class of representative selections.  
Prerequisite: French 12, or its equivalent.  
Alternates with French 61.
52. SURVEY OF FRENCH LITERATURE.—(B) Sem. 2. Cr. 3.  
Study of eighteenth and nineteenth century literature.  
Prerequisite: French 51, or its equivalent.  
Alternates with French 62.
61. NINETEENTH CENTURY LITERATURE.—(B) Sem. 1. Cr. 3.  
Study of various periods of nineteenth century literature, with rapid reading of representative novels, plays, and poetry.  
Prerequisite: French 12, or its equivalent.  
Alternates with French 51.  
(Omitted 1929-30.)
62. NINETEENTH CENTURY LITERATURE.—(B) Sem. 2. Cr. 3.  
Continuation of French 61.  
Prerequisite: French 61.  
Alternates with French 52.  
(Omitted 1929-30.)
63. COMPOSITION AND CONVERSATION.—(B) Sem. 1. Cr. 2.  
Written composition based on connected reading, with emphasis on the use of idioms. Conversation based on topics of current interest.  
Prerequisite: French 12, or its equivalent.

64. ADVANCED COMPOSITION AND CONVERSATION.—(B) Sem. 2. Cr. 2.  
Original oral and written compositions, and much practice in conversation.  
Prerequisite: French 63.
111. SEVENTEENTH CENTURY CLASSIC DRAMA.—(C) Sem. 1. Cr. 3.  
Study of the development of classic form in the plays of Corneille and Racine and of Moliere's art in depicting contemporary manners.  
Prerequisite: Eighteen hours of French.  
Alternates with French 161.  
(Omitted 1929-30.)
112. EIGHTEENTH CENTURY LITERATURE.—(C) Sem. 2. Cr. 3.  
Study of eighteenth century philosophy and literature.  
Prerequisite: Eighteen hours of French.  
Alternates with French 162.  
(Omitted 1929-30.)
161. FRENCH NOVEL OF NINETEENTH CENTURY.—(D) Sem. 1. Cr. 3.  
Novel studied, and development traced by movements within century.  
Prerequisite: Eighteen hours of French.  
Alternates with French 111.  
(Omitted 1929-30.)
162. MODERN FRENCH DRAMA.—(D) Sem. 2. Cr. 3.  
Plays of Becque, Bataille, Hervieu, Brieux, Rostand, Currel, etc.  
Prerequisite: Eighteen hours of French.  
Alternates with French 112.  
(Omitted 1929-30.)
191. THE TEACHING OF FRENCH.—(D) Sem. 1. Cr. 2.  
A teacher's course review of phonetic symbols to crystallize knowledge of pronunciation. Outlines of grammar are made and difficulties encountered in high school teaching are discussed. Methods studied and text-books examined for high school use.  
Prerequisite: Eighteen hours of the major in French. Required of all who expect to teach French. May not be used for credit toward major or minor in French.

## GERMAN

MILLER

Major: The minimum for a major is 24 credit hours. A prerequisite is German 12, or the equivalent.

Minor: A minor requires 12 credit hours. A prerequisite is German 12, or the equivalent.

Students who are preparing to teach German are advised to take courses 41, 42.



## COURSES IN GERMAN

1. FIRST SEMESTER GERMAN.—(A) Sem. 1. Cr. 3.  
Grammar, reading, and practice in writing and speaking German.
2. SECOND SEMESTER GERMAN.—(A) Sem. 2. Cr. 3.  
Continuation of German 1.  
Courses 1 and 2 are designed primarily to give the student a thorough knowledge of the elements of German grammar, and to enable him to read easy German prose at sight and understand simple spoken German.  
Prerequisite: German 1, or the equivalent.
11. THIRD SEMESTER GERMAN.—(A) Sem. 1. Cr. 3.  
Prerequisite: German 2, or the equivalent.
12. FOURTH SEMESTER GERMAN.—(A) Sem. 2. Cr. 3.  
Courses 11 and 12 are intermediate German courses and include selected readings from modern prose writers and the classical poets, a review of German grammar, practice in writing and speaking German, and reports on outside reading.  
Prerequisite: German 11, or the equivalent.
51. GERMAN COMPOSITION.—(B) Sem. 1. Cr. 2.  
Translations, review of grammar, written and oral reports on outside reading, letter writing.  
Prerequisite: German 12, or the equivalent.
52. ADVANCED GERMAN COMPOSITION.—(B) Sem. 2. Cr. 2.  
Continuation of German 51.  
Prerequisite: German 51, or the equivalent.  
Given in alternate years.
61. GOETHE.—(B) Sem. 1. Cr. 3.  
See note under German 72.  
Prerequisite: German 12, or the equivalent.  
Alternates with German 71.
62. GOETHE.—(B) Sem. 2. Cr. 3.  
Continuation of German 61.  
See note under German 72.  
Prerequisite: German 61, or the equivalent.  
Alternates with German 72.
71. LESSING.—(B) Sem. 1. Cr. 3.  
See note under German 72.  
Prerequisite: German 12, or the equivalent.  
Alternates with German 61.  
(Omitted 1929-30.)
72. SCHILLER.—(B) Sem. 2. Cr. 2.  
German 61, 62, 71 and 72 are introductory courses. The work of these courses includes the reading of works characteristic of the different

periods of the authors' lives, also lectures and outside readings. The courses are conducted mainly in German.

Prerequisite: German 12, or the equivalent.

Alternates with German 62.

(Omitted 1929-30.)

111. HISTORY OF GERMAN LITERATURE, to 1800.—(C) Sem. 1. Cr. 3.

Lectures, outside reading, and reports.

Prerequisite: German 61 and 62, or 71 and 72.

Alternates with German 151.

112. HISTORY OF GERMAN LITERATURE, since 1800.—(C) Sem. 2. Cr. 3.

The purpose of courses 111 and 112 is to give the student a comprehensive view of the history of German literature. The lectures are both historical and critical in nature. The outside reading is chosen from representative products of the various periods, especially of those periods which are not represented in other parts of the German course.

Prerequisite: German 111.

Alternates with German 152.

151. NINETEENTH CENTURY LITERATURE.—(D) Sem. 1. Cr. 3.

Class reading, lectures, and outside reading.

The authors especially studied in this course are Kleist, Uhland, and Heine. The lectures deal with the Romantic Movement and the works of Kleist, Uhland and the Swabian School, Young Germany, Heine, Eichendorff. The outside reading is taken from contemporary narrative and critical prose.

Prerequisite: Twelve hours of major in German.

Alternates with German 111.

(Omitted 1929-30.)

152. NINETEENTH CENTURY LITERATURE.—(D) Sem. 2. Cr. 3.

Continuation of German 151.

The classroom reading of this course is taken from the dramatic works of Grillparzer, Hebbel, Ludwig, Hauptmann, and Sudermann; the lectures deal mainly with the novel and the drama since the middle of the century; while the outside reading is taken from modern prose fiction.

Prerequisite: German 151.

Alternates with German 112.

(Omitted 1929-30.)

182. GOETHE'S FAUST, Parts I and II.—(D) Sem. 2. Cr. 2.

Class reading, lectures, and outside reading.

The major portion of this course is devoted to the interpretation of the two parts of the drama.

Prerequisite: Twelve hours of major in German.

Given in alternate years.

(Given on sufficient demand.)



## 191. THE TEACHING OF GERMAN.—(D) Sem. 1. Cr. 2.

A teacher's course. Discussion of methods and materials; review of grammar; oral and written reports on outside readings.

May not be used for credit toward major or minor in German.

Prerequisite: Eighteen hours of major in German.

(Given on demand.)

## LATIN

## KISSLING

Major: The minimum for a major is 24 credit hours. A prerequisite is Latin 12. Students majoring in Latin are advised to include History 122.

Minor: The minimum for a minor is 12 credit hours. A prerequisite is Latin 12.

## COURSES IN LATIN

## 11. CICERO'S ORATIONS.—(A) Sem. 1. Cr. 3.

Several of Cicero's political Speeches together with a selection of his Letters will be studied in class. This course offers the student not only additional Latin material of a different nature, but aims to present Cicero as a statesman and orator at a critical time in his career and in that of the Roman people. Easy Latin composition will accompany the work to assist review and to develop greater facility in understanding the language through mastery of forms and constructions.

Prerequisite: Two units of high school Latin.

## 12. VIRGIL'S AENEID.—(A) Sem. 2. Cr. 3.

This course introduces the student to Latin poetry and to the greatest of Roman poets. The student will read the famous story of the Fall of Troy, Dido's tragic love, the Descent to Hades and what took place there. Study of Latin versification, continuation of suitable Latin composition, and the interpretation of Virgil as a poetic artist and as the mouthpiece of imperialistic Rome.

Prerequisite: Latin 11, or the equivalent.

## 51. CICERO'S DE SENECTUTE AND DE AMICITIA.—(B) Sem. 1. Cr. 3.

The practical problems here discussed by Cicero are of perennial interest and show us the man who had absorbed the best elements of Greek and Roman civilization in his effort to arrive at a reasoned attitude on matters of ever-present human and social significance. The course aims to give the student a better understanding of Latin constructions and to interpret Cicero as a man of letters.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 61 and 71.

(Omitted 1929-30.)

## 52. LATIN PROSE COMPOSITION.—(B) Sem. 2. Cr. 3.

Review and amplification of the principles of Latin grammar with practice in the writing of Latin. The course aims to assist the student in



understanding Latin more readily by giving him a better knowledge of forms, constructions, and words.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 62 and 72.

(Omitted 1929-30.)

55. OVID.—(B) Sem. 1. Cr. 2.

Ovid ranks as the Roman poet of ease of manner, poetic versatility, and imaginative power. His poetry reflects the urbanity and polish of the proud and prosperous Age of Augustus. The course is based largely on Ovid's *Metamorphoses* with selections from his minor works.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with 105 and 125.

(Omitted 1929-30.)

61. LIVY.—(B) Sem. 1. Cr. 3.

The course, introducing the student to Roman historical writing, aims to develop the power to read Latin more readily by strengthening the student's knowledge of Latin constructions and to bring before him Livy's graphic and dramatic skill in portraying historical events.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 51 and 71.

(Omitted 1929-30.)

62. ROMAN COMEDY.—(B) Sem. 2. Cr. 3.

History of the rise and decline of Roman comic drama. From the extant plays the *Captivi* of Plautus and the *Phormio* of Terence will be selected for class study with the reading of several other plays in English translation.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 52 and 72.

71. PLINY'S LETTERS.—(B) Sem. 1. Cr. 3.

Reading and interpretation of selected letters of the Younger Pliny, the contemporary and personal friend of the leading Roman historian, Tacitus. Study of the author and the character of his age.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 51 and 61.

72. HORACE'S ODES AND EPODES.—(B) Sem. 2. Cr. 3.

Horace represents in his lyric verse the very essence of the spirit of his age, the Golden Age of Latin Literature. Studied by the Roman school-boy in his own day and ever after the world over, Horace has become the best-known and most-quoted of Roman poets. Selections from the *Odes* and *Epodes* are studied in class, accompanied by the explanation of the meters used, with practice in the reading of the verse. The emphasis is on the literary interpretation of the poems with frequent illustrations from English literature.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 52 and 62.

(Omitted 1929-30.)



## 76. VIRGIL'S ECLOGUES AND GEORGICS.—(B) Sem. 2. Cr. 2.

These poems reveal the poet who reared an immortal monument in epic verse to the grandeur of imperial Rome in a lighter, but equally charming mood. Virgil has so skillfully caught the spirit of pastoral poetry and put in enduring verse his love for wheat and woodland, for hive and horse and herd that cultured thought has ever since turned to these Eclogues and Georgics with a lover's delight.

Prerequisite: Latin 61, or the equivalent.

Alternates successively with Latin 106 and 136.

(Omitted 1929-30.)

## 101. CLASSICAL MYTHOLOGY.—(C) Sem. 1. Cr. 2.

The course aims to present to the student in an organized form the various legends and myths of early Greece and Rome, which constitute the rich treasure-house of fancy, sentiment, and thought from which the world's poets and thinkers, painters and sculptors have drawn inspiration and heightened power. Lectures and textbook, with special reference to English literature. No knowledge of a foreign language necessary.

(Omitted 1929-30.)

## 105. HORACE'S SATIRES AND EPISTLES.—(C) Sem. 1 and 2. Cr. 2.

Horace is here revealed as a critic of literary and social life whose insight into men and their motives is tempered by good nature and judgment. The course aims to give a fuller background to Horace's life and times. The emphasis is on the elucidation of the thought.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 55 and 125.

## 106. HORACE'S SATIRES AND EPISTLES.—(C) Sem. 2. Cr. 2.

Continuation of Latin 105.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 76 and 136.

## 125. SENECA'S EPISTLES.—(C) Sem. 1. Cr. 2.

Reading and interpretation of the letters of a Roman statesman and man of letters who is as eminently representative of his times as Cicero is of an earlier century. Study of the leading ideas of Stoicism, a philosophy of life whose grave seriousness gave steadiness of purpose to the world before the dawn and dissemination of Christianity.

Prerequisite: Latin 61, or the equivalent.

Alternates successively with Latin 55 and 105.

(Omitted 1929-30.)

## 136. SURVEY OF LATIN LITERATURE.—(C) Sem. 2. Cr. 2.

The development of Latin Literature is traced throughout its course with emphasis on the representative writers in prose and verse. Greek influence on Roman thought. Study of Roman achievement in history, oratory, philosophy, satire, literary criticism, epos, epigram, lyric verse, etc.,



illustrated by selections from the leading authors in translation. Text, lectures, and reports.

Prerequisite: Latin 12, or the equivalent.

Alternates successively with Latin 76 and 106.

(Omitted 1929-30.)

160. ROMAN TRAGEDY.—(D) Sem. 2. Cr. 3.

Several of the extant tragedies of Seneca studied and interpreted in class. History and development of Roman tragedy with a consideration of the causes of its decline and extinction. Influence of Seneca on the dramatic art of the moderns.

Prerequisite: Latin 61, or the equivalent.

Alternates with Latin 172.

(Omitted 1929-30.)

172. CICERO'S TUSCULAN DISPUTATIONS.—(D) Sem. 2. Cr. 3.

An introduction to the study of Roman philosophy. Character of Roman philosophic thought and its relation to that of the Greek thinkers. The significance of Cicero for Roman philosophy.

Alternates with Latin 160.

(Omitted 1929-30.)

191. THE TEACHING OF LATIN.—(D) Sem. 1. Cr. 2.

A teacher's course. The principles of teaching applied to Latin together with a study of the subject-matter, texts, and organization of the high school course in Latin. Correlation with English; devices to stimulate interest, etc. The course includes practical work in teaching high school classes under competent supervision. Lectures and reports.

Prerequisite: 18 hours of Latin, including Latin 4.

(Given on demand.)

## COURSES IN SPANISH

### KISSLING

1. FIRST SEMESTER SPANISH.—(A) Sem. 1. Cr. 3.

This course deals with the elements of Spanish grammar and aims primarily to give the student a reading knowledge of Spanish. Special attention is devoted to pronunciation, dictation, translation, and practice in speaking.

2. SECOND SEMESTER SPANISH.—(A) Sem. 2. Cr. 3.

Continuation of Spanish 1. The same textbook is used, the more difficult constructions are studied and easy Spanish authors are read in class.

Prerequisite: Spanish 1, or one unit of high school Spanish.

11-12. THIRD AND FOURTH SEMESTER SPANISH.—(A) Year each semester. Cr. 3.

Systematic review of grammar with exercises. Emphasis will be placed on the reading and appreciation of modern Spanish authors, with the further purpose of developing the student's vocabulary, his knowledge of Spanish idioms and of the more difficult uses of the subjunctive.

Prerequisite: Spanish 2 or two units of high school Spanish.



- 61-62. ADVANCED SPANISH READING COURSE.—(B) Yr. Each semester. Cr. 3.

This course presupposes two full years of College Spanish, or its equivalent, and offers the student the opportunity to acquire a fuller knowledge of Spanish dramatic, lyric, and novelistic literature. Either semester or both semesters may be taken.

Prerequisite: Spanish 12, or the equivalent.

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### COURSES IN GREEK (Omitted 1929-30)

- 1-2. BEGINNING GREEK.—(B) Yr. Each semester. Cr. 3.

The course is offered for those who have had no opportunity to study Greek in the high school and for those who wish to review the elements of the Greek language. The approach is by simple grammar and composition. The relation of English words to Greek is stressed, with informal lectures on the significance of ancient Greece to the modern world and its contributions to the cultivated and scientific thought of today.

- 11-12. INTERMEDIATE GREEK.—(B-C) Yr. Each semester. Cr. 3.

Review and amplification of Greek forms and constructions. Further study of the significance of Hellenic thought to modern civilization. The emphasis will be placed on the appreciation of the thought-content. Suitable texts will be used for Xenophon, for selections from Homer and for Plato's *Crito*. Assigned readings in translation.

Prerequisite: Greek 2, or the equivalent.

### THE DEPARTMENT OF GEOLOGY

MR. MEYER

The two interrelated branches of earth science, Geology and Geography, deal with the natural phenomena of the earth, ancient and modern, its materials and native resources, its internal structure and external configuration, and the influence of physical environment upon the activities of man.

The field of study being the earth itself, Geology and Geography are recognized as being inherently out-of-door sciences. The region about Valparaiso is eminently suited for local field excursions in the study of physiographic and industrial phenomena. These include the Valparaiso moraine and continental divide, near the crest of which the city is located; the present Lake Michigan and ancestral Lake Chicago beaches; the scenic Lake Michigan dunes, now in part made into a state park; and the industrial Calumet region, now ranking among the fastest growing industrial sections and one of the great steel centers in the United States.

The courses in this department may be elected by students having any of the following objectives in mind:

1. To fulfill teaching option requirements.



2. To acquire a general knowledge of the earth as part of their aesthetic, cultural, and civic training.
3. To supplement training in related fields of major and minor studies.
4. To provide professional training for teaching the earth sciences, or preparing for domestic or foreign trade service.

Major and Minor: Students electing major or minor work in this department should arrange their program of studies with the aid of their adviser as early as possible. The usual sequence of courses is as follows: Geology 51, 52, 56, 107, 125, 129.

#### COURSES IN GEOLOGY

51. PHYSIOGRAPHY.—(B) Sem. 1. 4+3, Cr. 5.

A general informational course in earth science, dealing primarily with the agencies and processes involved in the origin and modification of the surface features of the earth. Laboratory topographic map study interpretative of physiographic features. Field trips.

*Laboratory fee \$1.25.*

52. GENERAL GEOLOGY.—(B) Sem. 2. 4+3, Cr. 5.

A treatment of the fundamental principles of physiographical, stratigraphical, structural, and dynamical geology. Consideration of the theoretical phases, practical applications, and historical development of the science. Laboratory identification of the more common minerals, rocks, and fossils; construction of profile and structure sections; interpretation of topographic maps and geologic folios. Collateral readings. Field trips.

Prerequisite: Geology 51.

*Laboratory fee \$1.25.*

56. ECONOMIC GEOGRAPHY.—(B) Sem. 2. 3+0, Cr. 3.

A study of the adaptations of agricultural, industrial, and commercial activities of man to earth environment. Visit to Chicago industrial establishments.

*Fee \$1.00.*

107. WORLD GEOGRAPHY.—(C) Sem. 1. 3+0, Cr. 3.

An introduction to the natural and cultural factors and phenomena of the various landscapes of the earth, showing the interrelationships that exist among them, as well as pointing out specific adjustments which man has made in response to the influences of climate and other elements of the environment.

61. ENGINEERING GEOLOGY.—(B) Sem. 1. 3+3, Cr. 4.

A presentation of the principles of geology, featuring elements applying to the problems and practices of the engineer. "Elements of Engineering Geology" by Ries and Watson furnishes the basis for the work of the course, treated under the following heads: The important rock-making minerals; rocks and their relations to engineering work; structural features and metamorphism; rock-weathering and soils; development, work, and control of rivers; underground water; landslides, land subsidence and their effects; relation of wave action and shore currents to coasts and harbors; origin and relation of lakes and swamps to engineering work; origin, structure, and



economic importance of glacial deposits; road foundations and road materials; ore deposits. Class, laboratory, and field studies.

*Laboratory fee \$1.00.*

122. CRYSTALLOGRAPHY AND MINERALOGY.—(B) Sem. 2. 2+3, Cr. 3.

An introduction to the principles and concepts of crystallography, supplemented by a study of the elements of mineralogy. Laboratory examination of crystal models and natural crystals, blowpipe analysis, and identification of the more common minerals of economic and scientific importance.

Prerequisite: Geology 52, or Chemistry 51.

*Laboratory fee \$3.00.*

125. GEOGRAPHY OF NORTH AMERICA.—(C) Sem. 1. 3+0, Cr. 3.

A regional treatment of the environmental factors which control or influence human development on the North American continent, as based chiefly on a geographic survey of its physiographic provinces.

Alternates with Geology 129.

129. GEOGRAPHY OF EUROPE.—(C) Sem. 1. 3+0, Cr. 3.

A regional treatment, basically climatic and topographic, showing the influences of the diversified types of climate, of land, sea, coast, and drainage forms on the social, political, industrial, and commercial life of the peoples of Europe. Some of the topics considered are: the relative importance of topography in the interpretation of European history and in the determination of the routes of commerce and of military maneuvers, and the significant part which the "strategy of minerals" plays in determining the political complexion of the European continent.

Alternates with Geology 125.

(Omitted 1929-30.)

## THE DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

The aims of the department are to develop physical and mental efficiency, and to secure and maintain good posture, a harmonious muscular development, and a certain degree of bodily skill and grace.

Students desiring to train for teaching physical education may secure this training and receive the Bachelor of Arts degree.

Major: The minimum requirement is 24 credits.

Minor: The minor consists of 12 credits.

The courses must be taken in sequential order. Physical Education 01, 02, 051 and 052 do not apply to the major.

### CURRICULUM OF HEALTH AND PHYSICAL EDUCATION FOR THE TEACHING OF PHYSICAL EDUCATION

#### MEN

(Leading to the degree of Bachelor of Arts)

#### Freshman Year

Physical Education students take the work of the regular Liberal Arts freshman year.

## Sophomore Year

	<i>First Semester</i>	<i>Cr.</i>		<i>Second Semester</i>	<i>Cr.</i>
	Sophomore Constant ...	6		Sophomore Constant ...	6
Ed. 51.	General Psychology ....	3	Ed. 52.	Educational Psychology.	3
Zool. 51.	General Zoology .....	5	Zool. 62.	Anatomy and Physiology	5
	Elective .....	2		Elective .....	2
	—			—	
	16			16	

## Junior Year

(Offered 1930-31)

	<i>First Semester</i>	<i>Cr.</i>		<i>Second Semester</i>	<i>Cr.</i>
P.E. 101M.	Football .....	2	P.E. 102M.	Basketball .....	2
P.E. 113M.	Kinesiology .....	3	P.E. 112M.	Gymnastics .....	2
P.E. 117M.	Minor Sports .....	2	P.E. 114M.	Advanced Kinesiology...	3
Ed. 113.	General History of		Ed. 119.	Secondary Education ...	3
	Education .....	3		Elective .....	6
	Elective .....	6		—	
	—			16	
	16				

## Senior Year

(Offered 1931-32)

	<i>First Semester</i>	<i>Cr.</i>		<i>Second Semester</i>	<i>Cr.</i>
P.E. 157M.	Track and Field		P.E. 158M.	Baseball .....	2
	Athletics .....	2	P.E. 164M.	Physical Diagnosis and	
P.E. 161M.	Problems in Organiza-			Student Health .....	2
	tion and Administration	3	P.E. 172M.	Hygiene as related to	
P.E. 171M.	Hygiene .....	3		Physical Education ...	2
P.E. 191M.	Teaching of Physical		Ed. 192M.	Supervised Teaching	
	Education .....	2		(Coaching) .....	3
Ed. 151.	Principles of Teaching..	3		Elective .....	7
	Elective .....	3		—	
	—			16	
	16				

## COURSES IN HEALTH AND PHYSICAL EDUCATION

## MEN

01-02M. PHYSICAL EDUCATION.—(A) Yr. Each semester. Cr. 0.

The purpose of this course is to develop health and bodily vigor, to correct physical defects so far as is possible, stimulate interest in gymnastic activities and games, and give the student self-control in individual and group activities.

051-052M. PHYSICAL EDUCATION.—(B) Yr. Each semester. Cr. 0.

The gymnastic activities and group games which are begun in the first year are continued in the second. Advanced calisthenic exercises are emphasized.



**1-2M. PERSONAL HYGIENE.—(A) Yr. Each semester. Cr. 1.**

This course will deal with fundamentals in personal and public hygiene, anatomy, and physiology. The aim of the course is to create wholesome attitudes toward individual, family, and school, stressing the application of hygiene by constructive and defensive habits.

**101M. FOOTBALL.—(C) Sem 1. Cr. 3.**

Theory and practice. Topics typical of the work in this course are: Offense, defense, backfield, line, open field running, blocking, tackling, charging, use of hands, pivoting, kicking, formations, strategy, generalship, types of play for varying situations, rules and their application, sportsmanship.

Alternates with Physical Education 157.

**102M. BASKETBALL.—(C) Sem. 2. Cr. 3.**

Theory and practice; history. Examples of the questions considered are: Styles of play, equipment, shooting, dribbling; pivots, defense, offense, short pass, long pass, types of play for varying conditions; outline of practice sessions, duties of officials, making schedules.

Alternates with Physical Education 158.

**111-112M. GYMNASTICS.—(C) Yr. Sem. 2. Cr. 2.**

The purpose of this course is to acquaint the student with the theory and practice of gymnastics. It covers the significance of gymnastics in a program of physical education, the methods of exercising, principles of organizing daily work; outlines for different groups of pupils in elementary and high school, college and university; methods of teaching; gymnastic activities and nomenclature.

**113M. KINESIOLOGY.—(C) Sem. 1. Cr. 3.**

An understanding and an appreciation of the structure of the body. Necessary for the individual who expects to make physical education his life work.

Alternates with Physical Education 171.

**114M. ADVANCED KINESIOLOGY.—(C) Sem. 2. Cr. 3.**

Advanced study of muscle action and joint mechanics concerned in common postural defects and joint injuries. A course fundamental to the understanding of the therapeutic value of various physical activities.

Alternates with Physical Education 172.

Prerequisite: Physical Education 113.

**117-118M. MINOR SPORTS.—(C) Yr. Sem. 1. Cr. 2.**

Swimming, boxing, wrestling and tennis are the principal activities in this group and are taught from the standpoint of the man who expects to make physical education his profession. The capable teacher must also be skilled in the thing he teaches. Consequently each student is expected to attain to a mastery of these games.

**157M. TRACK AND FIELD ATHLETICS.—(D) Sem. 1. Cr. 2.**

The nature of the course is indicated by the following topics: Organizing and developing a team; instructional work from novice athletes



to finished competitors; selection of participants; demonstrations in sprints, hurdles, vaulting, weights, relays, correct and incorrect forms; cross country running; interesting squads, practice schedules, judgment of pace.

Alternates with Physical Education 101.

158M. BASEBALL.—(D) Sem. 2. Cr. 2.

Theory and practice. Fundamentals, throwing, conditioning, battery, bunting, base running, positions of catcher, pitcher, etc. A few of the topics considered are: Methods of playing each position, team play, individual play, psychology of the game, high school and college baseball.

Alternates with Physical Education 102.

161M. PROBLEMS IN ORGANIZATION AND ADMINISTRATION.—(D) Sem. 1. Cr. 3.

These are approached from the viewpoint of the grade school, college, university, community, state and national government. Such questions are considered as the following: Local and state and national and foreign systems of physical education; laws pertaining to health, hygiene and welfare; powers, duties and relations of boards of control; finances; records; reports; equipment, buildings and grounds; management of contests; awards, honors, failures, eligibility rules; courses of study, textbooks, and library materials.

164M. PHYSICAL DIAGNOSIS AND STUDENT HEALTH.—(D) Sem. 2. Cr. 2.

171M. HYGIENE.—(D) Sem. 1. Cr. 3.

Major problems of hygiene and public health will be covered. This will include a discussion of the cause, mode of transmission, and means of prevention of the common and important communicable diseases, and the scope and methods in social hygiene, mental hygiene, school hygiene, and material hygiene.

Alternates with Physical Education 113.

172M. HYGIENE AS RELATED TO PHYSICAL EDUCATION. — (D) Sem. 2. Cr. 2.

Practical application of knowledge gained from Physical Education 171 to the field of physical education of a whole. Physical Education should be considered as a field in which great good may be accomplished in the community in which the educator works.

Alternates with Physical Education 114.

191M. THE TEACHING OF PHYSICAL EDUCATION.—(D) Sem. 1. Cr. 2.

A teacher's course. The distinctive rules of pedagogy that are to be followed by the teacher of Physical Education in carrying out the purpose of his work. The teaching of natural and formal gymnastics.



# CURRICULUM OF HEALTH AND PHYSICAL EDUCATION FOR THE TEACHING OF PHYSICAL EDUCATION

## WOMEN

(Leading to the degree of Bachelor of Arts)

### Freshman Year

Physical Education students take the work of the regular Liberal Arts freshman year.

### Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Sophomore Constant ...		6	Sophomore Constant ...		6
P.E. 53W.	Physical Education		P.E. 54W.	Physical Education	
	Technique .....	2		Technique .....	2
Ed. 51.	General Psychology ....	3	Ed. 52.	Educational Psychology.	3
Zool. 51.	General Zoology .....	5	Zool. 62.	Anatomy and Physiology	5
		—			—
		16			16

### Junior Year

(Offered 1930-31)

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
P.E. 103W. Physical Education			P.E. 104W. Physical Education		
	Technique .....	2		Technique .....	2
P.E. 105W.	Recreational Leadership.	3	P.E. 106W.	Recreational Leadership.	3
P.E. 113W.	Kinesiology .....	3	P.E. 114W.	Advanced Kinesiology..	3
Ed. 113.	General History of		Ed. 119.	Secondary Education....	3
	Education .....	3	Chem.52.	Inorganic Chemistry....	4
Chem.51.	General Chemistry ....	4		Elective .....	1
	Elective .....	1			—
		—			16
		16			

### Senior Year

(Offered 1931-32)

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
P.E. 153W. Physical Education			P.E. 154W. Physical Education		
	Technique .....	2		Technique .....	2
P.E. 191W.	Teaching of Physical		Ed. 192.	Supervised Teaching	
	Education .....	2		(Coaching ).....	3
H.E. 135.	Home Nursing .....	2	*Elective .....		11
Ed. 151.	Principles of Teaching..	3			—
	*Elective .....	7			16
		—			
		16			

\*The student will choose another major and may select the following as her elective courses:  
H. E. 151, Nutrition and Dietetics; H. E. 153, Child Care; Bot. 125, Bacteriology; Bot. 162, Genetics.

## COURSES IN HEALTH AND PHYSICAL EDUCATION

## WOMEN

## 01-02W. PHYSICAL EDUCATION.—(A) Yr. Each semester. Cr. 0.

Required of all first year students. Conferences interpreting for each student records of physical examination, basing work on findings of the examination and measuring progress. Field hockey, volley ball, tennis, swimming and remedials in the fall; fundamental training in physical skills in the winter; and baseball, track and field athletics, swimming, and remedials in the spring.

## 051-052W. PHYSICAL EDUCATION.—(B) Yr. Each semester. Cr. 0.

Required of all second year students. Field hockey, swimming, tennis, volley ball, and remedials in the fall; winter sports, competitive apparatus, posture training, and floor work in the winter; baseball, track and field athletics, swimming, and remedials in the spring.

## 1-2W. PERSONAL HYGIENE.—(A) Yr. Each semester. Cr. 1.

This course will deal with the fundamentals in personal and public hygiene, anatomy, and physiology. The aim of the course is to create wholesome attitudes toward individual, family and school, stressing the application of hygiene by constructive and defensive habits.

## 53-54W. PHYSICAL EDUCATION TECHNIQUE.—(B) Yr. Each semester. Cr. 2.

Required of all sophomores taking the semi-professional course in physical education.

## 103-104W. PHYSICAL EDUCATION TECHNIQUE.—(C) Yr. Each semester. Cr. 2.

Required of all juniors taking the semi-professional course.  
Alternates with Physical Education 153-154.

## 105W. RECREATIONAL LEADERSHIP.—(C) Sem. 1. Cr. 3.

Required of all juniors taking the semi-professional course. Psychology of play; practice in games suitable to different ages; organization, equipment, and management of playgrounds. Practice in leading play activities in grade schools.

## 106W. RECREATIONAL LEADERSHIP.—(C) Sem. 2. Cr. 3.

Community recreation in its relation to mental hygiene and social attitudes—girls' clubs, etc. Camp leadership, with emphasis on camp craft, wood craft, and nature study. Open to juniors and seniors majoring in education.

## 113W. KINESIOLOGY.—(C) Sem. 1. Cr. 3.

A study of the framework of the human body, the mechanics of the movable parts, and the means of their voluntary control. The action of



joints and the muscles is studied in the natural movements of daily life and in the organized activities, in gymnastics, and in the sports.

153-154W. PHYSICAL EDUCATION TECHNIQUE.—(D) Yr. Each semester. Cr. 2.

Required of seniors taking the physical education major.

Alternates with Physical Education 103-104.

191W. THE TEACHING OF PHYSICAL EDUCATION.—(D) Sem. 1. Cr. 2.

A teacher's course. The distinctive rules of pedagogy that are to be followed by the teacher of physical education in carrying out the purpose of her work. The teaching of natural and formal gymnastics.

### THE DEPARTMENT OF HOME ECONOMICS

MISS SEEBACH

The courses of instruction given in this Department are planned to meet the needs of the following groups: (a) Students who wish to prepare themselves for home making; (b) Students who wish to prepare themselves for teaching Home Economics in secondary schools.

Students who wish to take the work in home making will consult the adviser. Programs will be arranged to meet the special needs of such students.

#### THE CURRICULUM FOR TEACHERS OF HOME ECONOMICS

The courses for the freshman year are the same as those prescribed for all students in the College of Liberal Arts.

##### Sophomore Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
Sophomore Constant ...		6	Sophomore Constant ...		6
H.E. 51.	Art and Design.....	3	H.E. 52.	Textiles and Clothing...	3
Chem. 51.	General Chemistry .....	4	Chem. 52.	Inorganic Chemistry....	4
Psych. 51.	General Psychology ....	3	Ed. 52.	Educational Psychology. 3	
		—			—
		16			16

##### Junior Year

<i>First Semester</i>		Cr.	<i>Second Semester</i>		Cr.
H.E. 101.	Food Selection and		H.E. 151.	Nutrition and Dietetics. 3	
	Preparation .....	3	H.E. 102.	Meal Planning and Table	
H.E. 135.	Home Nursing .....	2		Service .....	3
Ed. 113.	History of Education...	3	H.E. 138.	Woman and her social	
Chem. 103.	Organic Chemistry .....	4		Relations .....	1
Bot. 125.	Bacteriology .....	4	H.E. 142.	The House .....	3
		—	Ed. 118.	Secondary Education....	3
		16	Zool. 54.	Elementary Physiology..	3
					—
					16

## Senior Year

<i>First Semester</i>			<i>Second Semester</i>		
		<i>Cr.</i>			<i>Cr.</i>
H.E. 155.	Clothing Construction..	3	H.E. 156.	Advanced Clothing Construction .....	3
H.E. 153.	Child Care .....	2	H.E. 174.	Home Management: Lecture .....	1
H.E. 191.	Methods of Teaching Home Economics....	2	H.E. 176.	Home Management: Cottage .....	3
Ed. 151.	Principles of Teaching..	3	Ed. 192.	Supervised Teaching ...	3
P.E. 171.	Hygiene .....	3		Electives .....	6
		—			—
		16			16

## COURSES IN HOME ECONOMICS

## 51. ART AND DESIGN.—(B) Sem. 1, 0+6, Cr. 3.

A study of the principles of design and theory of color with their application to typical household arts problems involving selection and arrangement.

*Laboratory fee* \$3.00.

(Omitted 1929-30.)

## 52. TEXTILES AND CLOTHING.—(B) Sem. 2, 0+6, Cr. 3.

A study of textiles including selection and identification of fabrics; fundamental principles of clothing construction and selection; color and design as applied to dress; handling of patterns, hygiene, care and repair of clothing.

*Laboratory fee* \$3.00.

(Omitted 1929-30.)

## 101. FOOD SELECTION AND PREPARATION.—(C) Sem. 1, 0+6, Cr. 3.

Food preparation in meal combinations; principles of cookery; food values; preservation; marketing; analysis of standard products; simple table service.

Prerequisite: Chemistry 51.

*Laboratory fee* \$7.50.

## 102. MEAL PLANNING AND TABLE SERVICE.—(C) Sem. 2, 0+6, Cr. 3.

Study of greater variety and more elaborate preparation of foods; planning menus for different costs; proper food combinations; suitable service for informal family meals and for special functions.

Prerequisite: Home Economics 101.

*Laboratory fee* \$7.50.

(Omitted 1929-30.)

## 135. HOME NURSING.—(C) Sem. 1, 2+0, Cr. 2.

This course deals with the prevention and cure of sickness in the home; first aid emergencies; recognition of common symptoms of disease; simple nursing procedures.

*Laboratory fee* \$1.00.

(Omitted 1929-30.)



138. WOMAN AND HER SOCIAL RELATIONS.—(C) Sem. 2, 1+0, Cr. 1.  
A study of woman in her relations to the various activities of the community; social, economic, hygienic, civic, and educational.  
(Omitted 1929-30.)
142. THE HOUSE.—(C) Sem. 2, 0+6, Cr. 3.  
Types of architecture affecting modern house plans; discussion of furnishings from the economic, sanitary and aesthetic standpoint; original plans for houses and arrangement of furnishings will be worked out by each student.  
Prerequisite or parallel: Home Economics 51.  
*Laboratory fee* \$1.00.  
(Omitted 1929-30.)
151. NUTRITION AND DIETETICS.—(D) Sem. 1, 1+6, Cr. 3.  
Fundamental principles of human nutrition and nutritive properties of common food materials; food requirements of the individual; calculation and preparation of dietaries with reference to cost varied to meet different incomes.  
Prerequisite: Home Economics 102, Chemistry 103.  
*Laboratory fee* \$5.00.
153. CHILD CARE.—(D) Sem. 1, 2+0, Cr. 2.  
The health problems of mother and infant; feeding of normal infants and children; diet in deficiency diseases; growth and development in childhood and adolescence.
155. CLOTHING CONSTRUCTION.—(D) Sem. 1, 0+6, Cr. 3.  
A further study in selection and construction of clothing; experience in handling wool and silks; personal expense accounts; and budgets with special reference to clothing.  
Prerequisite: Home Economics 51 and 52.  
*Laboratory fee* \$2.00.
156. ADVANCED CLOTHING CONSTRUCTION.—(D) Sem. 2, 0+6, Cr. 3.  
Historic costume as affecting present day styles; problems in design and color harmony in relation to costumes for different individuals and purposes; construction of clothing with fundamentals of draping on the form; selection and construction of hats.  
Prerequisite: Home Economics 155.  
*Laboratory fee* \$3.00.
174. HOME MANAGEMENT: Lecture.—(D) Sem. 2, 1+0, Cr. 1.  
The sources and division of the income; budgeting; the purchase, care, and use of equipment; application of scientific management to the home and to household operations.  
Prerequisite: Home Economics 135, 151 and 153.
176. HOME MANAGEMENT: Cottage.—(D) Sem. 2. Cr. 3.  
Residence for six weeks in the Home Management Cottage providing opportunity for managerial responsibilities in home making.



Prerequisite: Home Economics 135, 151 and 153; prerequisite or parallel: Home Economics 174.

*Laboratory fee \$10.00 to \$25.00.*

191. THE TEACHING OF HOME ECONOMICS.—(D) Sem. 1, 2+0, Cr. 2.

A teacher's course. A study of the development of Home Economics and its relation to other subjects in the school curriculum; methods of presentation on subject matter; planning of courses; uses of illustrative material; lesson plans; study of text-books, supplies and equipment.

Prerequisite: Eighteen credit hours of the major.

## THE DEPARTMENT OF MATHEMATICS AND PHYSICS

### A. MATHEMATICS

MR. COPP

Major: Twenty-four credits, including Mathematics 51 and 60, are required for a major.

Minor: Twelve credits make a minor.

### COURSES IN MATHEMATICS

51. TRIGONOMETRY.—(B) Sem. 1. Cr. 3.

To be taken with Mathematics 60. Plane and spherical trigonometry. Attention is given to theoretical and practical work.

Prerequisite: Solid Geometry.

60. COLLEGE ALGEBRA.—(B) Sem. 1. Cr. 2.

Quadratic equations, use of determinants, progressions, binomial theorem, Horner's method of approximating roots.

Prerequisite: One and one-half units of high school algebra.

65. MATHEMATICS OF FINANCE.—(B) Sem. 2. Cr. 3.

For students of Business Management. Theoretical and practical work in interest, discounts, loans, insurance, investments, stocks, bonds, and annuities.

Prerequisite: Mathematics 60.

70. ANALYTIC GEOMETRY.—(B) Sem. 2. Cr. 5.

The conic sections; some surfaces in three dimensions.

Prerequisite: Mathematics 51.

110. DIFFERENTIAL CALCULUS.—(C) Sem. 1. Cr. 5.

Theoretical and practical work with applications to geometrical and physical problems.

Prerequisite: Mathematics 70.

120. INTEGRAL CALCULUS.—(C) Sem. 2. Cr. 5.

Practice in integration, definite integrals, improper integrals, multiple integration, important theorems and applications.

130. ADVANCED ALGEBRA.—(C) Sem. 1. Cr. 3.

Undetermined coefficients, continuous fractions with some of their applications, various methods of summing series, finite differences.

Prerequisite: Mathematics 70.



## 155. MODERN ANALYTICAL GEOMETRY.—(D) Sem. 1. Cr. 3.

A brief introduction to synthetic projective geometry is followed by an analytic exposition of the more essential parts of projective geometry.

Prerequisite: Mathematics 110 and 130 and consent of instructor.

(Given upon sufficient demand.)

## 160. ADVANCED CALCULUS.—(D) Sem. 1. Cr. 3.

A rigorous proof of the more advanced theorems of calculus is given.

Prerequisite: Mathematics 120 and consent of instructor.

(Given upon sufficient demand.)

## 165. THEORY OF ALGEBRAIC EQUATIONS.—(D) Sem. 2. Cr. 2.

Selected topics in modern higher algebra.

Prerequisite: Mathematics 75 and 90 and consent of instructor.

## 170. DIFFERENTIAL EQUATIONS.—(D) Sem. 1. Cr. 3.

Ordinary differential equations; applications to mechanical, physical and chemical problems.

Prerequisite: Mathematics 120 and consent of instructor.

(Given upon sufficient demand.)

## 175. DIFFERENTIAL EQUATIONS.—(D) Sem. 2. Cr. 3.

Non-linear and partial differential equations; some of the existence theorems.

Prerequisite: Mathematics 170.

(Given upon sufficient demand.)

## 191. THE TEACHING OF MATHEMATICS.—(D) Sem. 1. Cr. 3.

A teacher's course. The methods and materials; principles of the mathematical science, in particular, of geometry and algebra.

Prerequisite: Fifteen hours of mathematics.

## B. PHYSICS

ASSISTANT PROFESSOR ROLLER

The courses are arranged to meet the need of (1) students desiring to major or minor in Physics, (2) students preparing for Medicine, and (3) students in Engineering and Home Economics.

Major: Twenty-four sequential credits in Physics shall constitute a major.

Minor: Twelve credits in Mathematics and one other science, Chemistry or Engineering, are required for the related minor.

The minor in Physics should be arranged upon consultation with the major adviser.

## COURSES IN PHYSICS

## 51-52. GENERAL PHYSICS.—(B) Yr. Each sem. 3+3, Cr. 4.

This is the basic course in physics.

Prerequisite: High School Algebra.

Laboratory fee \$6.00; deposit \$2.00.



## 61-62. TECHNICAL PHYSICS.—(B) Yr. Each sem. 3+3, Cr. 4.

This course is intended particularly for engineers.

Prerequisite: Mathematics 51.

Laboratory fee \$6.00; deposit \$2.00.

## 109. THEORY OF HEAT.—(C) Sem. 1. Cr. 5.

Thermal properties of matter, energy transformation, properties of vapors, refrigeration, combustion, and pyrometry are studied.

Prerequisite: Mathematics 110 and Physics 51 and 52. Open to those who are taking technical physics.

(Given upon sufficient demand.)

## 111. THEORY OF HEAT LABORATORY.—(C) Sem. 1. Cr. 1.

This course is designed to accompany Physics 110. Experiments are chosen from the text used in Physics 110. Also open to Engineering students.

Laboratory fee \$6.00; deposit \$2.00.

(Given upon sufficient demand.)

## 120. WAVE THEORY OF LIGHT.—(C) Sem. 2. Cr. 3.

A course intended to give a systematic and complete treatment of the subject.

Prerequisite: Mathematics 51 and Physics 51 and 52.

(Omitted 1929-30.)

## 121. LIGHT LABORATORY.—(C) Sem. 2. Cr. 2.

A course intended to accompany Physics 120. The student is familiarized with the use of the spectroscope and its application in spectrum analysis.

Prerequisite: Mathematics 51.

Laboratory fee \$6.00; deposit \$2.00.

(Omitted 1929-30.)

## 125. ELECTRICAL MEASUREMENTS.—(C) Sem. 1, 1+6, Cr. 3.

Required of juniors who are taking Electrical Engineering. Also especially adapted to accompany course 180, though not required.

Prerequisite: Mathematics and Physics 51 and 52 or 61 and 62.

Laboratory fee \$6.00; deposit \$2.00.

## 150. HISTORY OF PHYSICS.—(C) Sem. 2. Cr. 2.

A complete survey of the development of Physics.

## 151. MODERN PHYSICS.—(D) Sem. 1. Cr. 3.

A course dealing with recent discoveries in the nature of matter and energy, embodying also recent theories of atomic structure, X-rays, radioactivity, and other modern phenomena.

Prerequisite: Physics 51 and 52, or 61 and 62.

## 175. ALTERNATING CURRENT THEORY.—(D) Sem. 1. Cr. 3.

The course must be taken by those who plan to study Radio.

Prerequisite: Mathematics 110 and Physics 51 and 52, or 61 and 62.



## 176. RADIO.—(D) Sem. 2. Cr. 3.

A study of electromagnetic waves and the theory of radio communication.

Prerequisite: Physics 175.  
(Omitted 1929-30.)

## 177. RADIO LABORATORY.—(D) Sem. 2, 0+3, Cr. 1.

Designed to accompany Physics 176. The study and construction of radios.

*Laboratory fee \$6.00; deposit \$2.00.*  
(Omitted 1929-30.)

## 180. ELECTRICITY AND MAGNETISM.—(D) Sem. 1. Cr. 3.

The elements of the mathematical theory of electricity and magnetism and the general theory of instruments are considered.

Prerequisite: Physics 51 and 62 or 61 and 62, and Mathematics 110.

## 191. THE TEACHING OF PHYSICS.—(D) Sem. 2. Cr. 2.

A teacher's course. Open to students in Physics and Education.

Prerequisite: Physics 51 and 52 or 61 and 62, and one other course.

## THE DEPARTMENT OF RELIGION AND PHILOSOPHY

PROFESSOR KROENCKE and MR. KUMNICK

## A. RELIGION

KUMNICK

The Department of Religion provides courses for adequate and systematic instruction in the fundamentals of the Christian religion. Such courses may be taken by the general student body. Other courses prepare for lay service in the church. Dependent upon the amount of work taken, a major or minor, the student may qualify for part-time service in his church, such as Sunday-school teaching and group leadership; or he may prepare for certain types of full-time service, such as that of Sunday-school administrator, church and institutional secretary, and church organist and choir conductor.

Major: A major in Religion requires 24 credit hours, which should include Religion 51 and 52.

Minor: A minor requires 12 credit hours, including Religion 51 and 52.

The following curricula are subject to such changes as the special needs of the student may require.

## THE CURRICULUM FOR CHURCH OR INSTITUTIONAL SECRETARY

(Leading to the degree of Bachelor of Arts)

The courses for the freshman year are the same as those prescribed for all students in the College of Liberal Arts. Religion 1, The Life of Jesus, and Religion 2, The Teachings of Jesus, should be included.

## Sophomore Year

	<i>First Semester</i>	<i>Cr.</i>		<i>Second Semester</i>	<i>Cr.</i>
Rel.	49. The Bible and Civiliza- tion .....	1	Rel.	50. The Bible and Civiliza- tion .....	1
Rel.	51. The Bible: The Old Testament .....	3	Rel.	52. The Bible: The New Testament .....	3
Engl.	51. Types of Literature and Composition .....	2	Engl.	52. Types of Literature and Composition .....	2
B.M.	41. Elementary Accounting.	2	B.M.	42. Elementary Accounting.	2
P.E.	51. Physical Education ....	0	P.E.	52. Physical Education ....	0
	Foreign Language .....	3		Foreign Language .....	3
	Science .....	4-5		Science .....	4-5
		<hr/>			<hr/>
		15 or 16			15 or 16

Junior Year  
(Offered 1930-31)

	<i>First Semester</i>	<i>Cr.</i>		<i>Second Semester</i>	<i>Cr.</i>
Rel.	121. Ancient and Medieval Church History .....	3	Rel.	122. Modern Church History	3
Engl.	55. Survey of English Literature .....	3	Engl.	56. Survey of English Literature .....	3
Psych.	51. General Psychology ....	3	Ed.	52. Educational Psychology	3
Soc.	51. Introduction to the Study of Human Society....	3	Soc.	52. Introduction to the Study of Human Society....	3
Hist.	101. Medieval Europe .....	3	Hist.	102. Modern Europe .....	3
B.M.	2. Beginning Typewriting.	1	B.M.	3. Advanced Typewriting.	1
		<hr/>			<hr/>
		16			16

Senior Year  
(Offered 1931-32)

	<i>First Semester</i>	<i>Cr.</i>		<i>Second Semester</i>	<i>Cr.</i>
Rel.	111. The Local Congregation	2	Rel.	112. The General Church Body .....	2
Rel.	128. The Church in the Mis- sion Field .....	2	Rel.	152. Materials and Methods in Young People's Work	3
Rel.	151. Materials and Methods in Religious Education	3	Rel.	162. Principles of Christian Service .....	2
Engl.	131. Journalism .....	2	Engl.	132. Journalism .....	2
P.E.	105. Recreational Leadership.	3	H.E.	135. Home Nursing .....	2
P.E.	117. Minor Sports .....	2	Soc.	102. Social Problems .....	3
B.M.	4. Beginning Stenography.	1	B.M.	5. Advanced Stenography & Secretarial Training..	2
	Elective .....	1			<hr/>
		<hr/>			<hr/>
		16			16



Toward the program for Sunday-school administrator or director of religious education in a congregation, leading to the degree of Bachelor of Arts, the student should complete the freshman and sophomore constant, and select courses from the following groups: English 55, 56, 131, 132; History 101, 102; Religion 51, 52, 101, 102, 111, 112, 121, 122, 128, 151, 152, 162, 163; Sociology 51, 52, 102; Philosophy 121; Psychology 51, 52.

### COURSES IN RELIGION

#### 1. THE LIFE OF JESUS.—(A) Sem. 1. Cr. 2.

A detailed study of the Gospel record, classification of the most important writings on the Life of Christ, and an intensive study of His person, life, and public ministry.

Kumnick.

#### 2. THE TEACHINGS OF JESUS.—(A) Sem. 2. Cr. 2.

A systematic study, based on the Gospel narratives, of the teachings of Jesus concerning God, man, sin, salvation, the Kingdom of God, the future life, etc. The course concludes with a survey of Christological thought from the days of Paul down to the present time.

Kumnick.

#### 49-50. THE BIBLE AND CIVILIZATION.—(B) Yr. Each semester. Cr. 1.

The important contribution which Christianity has made and still makes to the life of a nation; consideration of the influence of the Bible on questions pertaining to the family, divorce, the status of woman, the child, economic, moral, social, and educational life.

Kumnick.

#### 51. THE BIBLE: THE OLD TESTAMENT.—(B) Sem. 1. Cr. 3.

The most important teachings of the Old Testament. A descriptive survey of the Books of the Old Testament and a resume of Old Testament Biblical History.

Kumnick.

#### 52. THE BIBLE: THE NEW TESTAMENT.—(B) Sem. 2. Cr. 3.

Judaism in the days of Christ; early Christianity. A descriptive survey of the books of the Old Testament and a resume of New Testament Biblical History.

Kumnick.

#### 101. THE LIFE AND LETTERS OF PAUL.—(C) Sem. 1. Cr. 2.

The conversion of Paul; his missionary career; personality and characteristic ideals; place and influence in the Christian Church. The writings of Paul and the fundamental doctrines and practices of the Church. (Given upon sufficient demand.)

#### 102. CHRISTIAN EVIDENCE.—(C) Sem. 2. Cr. 2.

The grounds on which Christianity bases its claim to be absolute religion. The historical method of approach supplemented by evidence from science, logic, and experience. Comparison of Christianity with the principal anti-theistic theories.

(Given upon sufficient demand.)



111. THE LOCAL CONGREGATION.—(C) Sem. 1. Cr. 2.  
Nature and place of the congregation. Organization and administration. Budgeting and stewardship. Activities. Intended to prepare for intelligent and efficient participation in the work of the congregation.
112. THE GENERAL CHURCH BODY.—(C) Sem. 2. Cr. 2.  
Relation to the local congregation. Organization and administration. Finance. Survey of education and missionary activities. Intended to prepare for efficient participation in the work of the church at large.
121. ANCIENT AND MEDIEVAL CHURCH.—(C) Sem. 1. Cr. 3.  
From the Apostolic Age to the period of the Reformation.
122. MODERN CHURCH HISTORY.—(C) Sem. 2. Cr. 3.  
The Church of the Reformation. A history of the principal denominations up to the present day.
125. THE CHURCH IN THE MISSION FIELD.—(C) Sem. 1. Cr. 2.  
A survey of mission fields. The field, problems, methods employed, and the social, educational, and religious status of the countries included in the study.
151. MATERIALS AND METHODS IN RELIGIOUS EDUCATION.—(D) Sem. 1. Cr. 3.  
Organization, equipment, and administration of the Sunday school, the Vacation Bible School, and other educational agencies; objectives, curricula, texts. Some attention is given to standards and texts.
152. MATERIALS AND METHODS IN YOUNG PEOPLE'S WORK.—(D) Sem. 2. Cr. 3.  
The nature of young people's work; its place in the life of the church; development; problems; lesson material; activities; discovery and training of leadership.
162. PRINCIPLES OF CHRISTIAN SERVICE.—(D) Sem. 2. Cr. 2.  
Nature and place of Christian service in the life of the individual; motives and ideals of service; various types of Christian service in the church and in the community; standards of service; leadership qualifications. Supplementary readings, reports, personal conferences.
191. THE TEACHING OF RELIGION.—(D) Sem. 1. Cr. 2.
192. OBSERVATION AND PRACTICE TEACHING.—(D) Sem. 2. Cr. 1½.

## B. PHILOSOPHY

KROENCKE

### COURSES IN PHILOSOPHY

- 51-52. HISTORY OF PHILOSOPHY.—(B) Yr. Each semester. Cr. 3.  
A survey of philosophical thought from its rise among the ancient Greeks to the present time, with emphasis upon the great movements of thought rather than upon the details of philosophical systems. Certain systems, however, are selected for special study.



## 101. LOGIC.—(C) Sem. 1. Cr. 3.

An introductory course in the laws of thought. The evolution of the concept, its development into judgment and inference, the systematic function of classification, the explanatory function of generalization, and the methodology of proof and investigation are studied with a view to securing a foundation for an effective scientific method.

## 122. ETHICS.—(C) Sem. 2. Cr. 3.

The moral situation; problems and types of moral theory; conduct and character; happiness in its relation to conduct and social ends; the place of reason, duty, and self in the moral life; the virtues; social organization and the individual; civil society and the political state; the ethics of economic life; the family.

## 181. PRESENT-DAY PHILOSOPHY.—(D) Sem. 1 or 2. Cr. 3.

A concrete study of two or three great systems of thought that have shaped the course of modern life, such as expressed by Kant, Hegel, Green, Bradley, Spencer, Royce, James, Dewey, Bergson, Russell, Watson, and others.

(Omitted 1929-30.)

### THE DEPARTMENT OF SOCIAL SCIENCE

ASSISTANT PROFESSOR PINTO, ASSISTANT PROFESSOR BAUER, ———

The courses in Economics, History, Political Science, and Sociology aim to give the student an insight into the record of the development of social, economic, and political institutions, thereby giving him the background necessary to an intelligent citizenship, further professional training, and a liberal education.

The Department of Social Science is sponsor for the following work :

1. For the TWO YEAR PRE-LEGAL COURSE. For this course the freshman and sophomore constants and, in the sophomore year, such courses as may be suggested by the adviser on the basis of the student's previous training and natural aptitude are required.
2. For the FOUR-YEAR LIBERAL ARTS-LAW PROGRAM. For this program the freshman and sophomore constants, a major in History and Political Science, and sufficient electives to total at least 90 credits at the end of the junior year are needed.  
This is followed by one year of Law.
3. For the first half of the SIX-YEAR COMBINED LIBERAL ARTS-LAW PROGRAM. This program requires for its completion the three years of work in the College of Liberty Arts, noted above, and the regular three-year course in the School of Law.
4. For the FIVE-YEAR COMBINED LIBERT ARTS AND SOCIAL WORK PROGRAM. For this program the freshman and sophomore constants, a major in the social studies, including Sociology 51,



52, 101, and 102; History 51, 52, 131, 132, 133, and 134; Political Science 51, 52, and 101; Economics 51, 52, and 141; Psychology 51, and 116; Ed. 52, and sufficient electives to total 124 credits must be earned. See under Combined Programs.

The work of the fifth year is secured in an approved school of Social Work.

### ECONOMICS

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Major: 24 credits, including Economics 51 and 52, are the minimum requirement.

Minor: 12 credits, including Economics 51 and 52, are required.

These credits may be chosen from one or two of three related departments, History, Political Science, or Sociology.

### COURSES IN ECONOMICS

#### 51. PRINCIPLES OF ECONOMICS.—(B) Sem. 1. Cr. 3.

This is a basic course designed to acquaint the student with fundamental economic concepts. The processes of production, exchange, distribution, and consumption of wealth are analyzed, and their relation to current economic problems discussed. Credit withheld until Economics 52 is successfully completed.

Prerequisite: Sophomore standing.

#### 52. PRINCIPLES OF ECONOMICS.—(B) Sem. 2. Cr. 3.

Continuation of Economics 51.

Prerequisites: Economics 51.

#### 101. ECONOMIC HISTORY OF THE UNITED STATES.—(C) Sem. 1. Cr. 3.

The origin and development of modern American economic institutions and life.

Prerequisite: Economics 52.

(Omitted 1929-30.)

#### 141. LABOR PROBLEMS.—(C) Sem. 1. Cr. 3.

This is a survey course dealing with (1) the history of labor and the main forces underlying our modern labor problems, (2) the approach of workers and employers to their labor problems, (3) the development of trade unions and other institutions, and (4) social control.

Prerequisite: Economics 52.

Alternates with Economics 171.

#### 151. MONEY AND BANKING.—(D) Sem. 1. Cr. 3.

The following topics are considered: the importance and the principles of sound money; the gold standard; centralized banking; the national banking system; theory of averting panics and crises under the Federal Reserve System.

Prerequisite: Economics 52.

Alternates with Economics 162.



## 162. INVESTMENTS.—(D) Sem. 2. Cr. 3.

This course undertakes an analysis of the general principles of investment; classification of securities; investment opportunities; mathematics of yields and conversions; methods of protection; sources of information; general work of the bond house.

Prerequisite: Economics 52.

Alternates with Economics 152.

(Omitted 1929-30.)

## 171. TRANSPORTATION.—(D) Sem. 1. Cr. 3.

The development of the American railroad system; the branches of the railroad service; classification and rates; public aid and regulation in the United States and foreign countries.

Prerequisite: Economics 52.

Alternates with Economics 141.

(Omitted 1929-30.)

## HISTORY

Major: A major in History requires at least 24 units in History, which should include History 51 and 52 and other courses grouped in either American or European History. Economics 51 and 52 may also be included.

Minor: Twelve credits are necessary toward a minor.

Upper-division students majoring in other departments may, with the consent of the adviser in Social Science, be allowed to register for upper-division courses without the introductory courses.

## COURSES IN HISTORY

## 51. MEDIEVAL EUROPE.—(B) Sem. 1. Cr. 3.

A survey of European history from the dissolution of the Roman empire to the rise of modern national states, about 500 to 1500, with primary emphasis upon the peculiarly medieval institutions.

Bauer.

## 52. MODERN EUROPE.—(B) Sem. 2. Cr. 3.

Continuation of History 51. The development of Europe from the beginning of the sixteenth century to the present time, with particular attention to those economic and intellectual forces that have entered so vitally into the making of twentieth century Europe.

Prerequisite: History 51.

Bauer.

## 101. RENAISSANCE AND REFORMATION.—(C) Sem. 1. Cr. 3.

A study of the transition of Europe from medieval to modern times: the revival and spread of classical learning, humanism, fine arts and letters, scientific inventions and discoveries, geographical explorations, the Protestant Reformation, the Catholic Counter-Reformation, and the religious wars to 1648.

Alternates with History 112.

Bauer.

102. FRENCH REVOLUTION AND NAPOLEONIC ERA.—(C) Sem. 2. Cr. 3.

Growing dissatisfaction under the old regime, the meeting of the Estates-General, the constitutional monarchy, the republic under the Terror and the Directorate, the rise of Napoleon and the Consulate, the Empire and Napoleonic wars, and the Congress of Vienna. Less emphasis is placed upon the purely personal and local phenomena and more upon the significance of the period for the subsequent development of Europe.

Alternates with History 111 and 121.

Bauer.

111. ENGLAND SINCE JAMES I.—(C) Sem. 1. Cr. 3.

A century of revolution, aristocratic government, foundations of the British Empire, the economic revolution, the period of reform, the growth of democracy, the World War, and recent tendencies.

Alternates with History 103 and 121.

(Omitted 1929-30.)

112. CONSTITUTIONAL HISTORY OF ENGLAND.—(C) Sem. 2. Cr. 3.

Alternates with History 102.

(Omitted 1929-30.)

121. ANCIENT HISTORY.—(C) Sem. 1. Cr. 3.

The Orient and Greece. Prehistoric times, Egypt, the civilizations of the Tigris-Euphrates valley, the Hebrews, the Phoenicians, and the Hellenic world.

Alternates with History 103 and 111.

(Omitted 1929-30.)

122. ANCIENT HISTORY.—(C) Sem. 2. Cr. 3.

The Roman world, from the beginning of Rome to the so-called "fall" of the western empire in 476.

Alternates with History 151.

(Omitted 1929-30.)

131. UNITED STATES TO 1865.—(C) Sem. 1. Cr. 3.

Deals with the period from the earliest settlements to the administration of Andrew Jackson.

Alternates with History 133 and Political Science 157.

Pinto.

132. UNITED STATES: 1865 TO THE PRESENT TIME.—(C) Sem. 2. Cr. 3.

Prerequisite: History 131.

Alternates with History 134 and Political Science 158.

Pinto.

133. THE U. S. AS A WORLD POWER.—(C) Sem. 1. Cr. 3.

1898 to present time. Results of Spanish War. Political development. European War. American participation. Results of World War. League of Nations.

Prerequisite: History 131 and 132.

Alternates with History 131 and Political Science 157.

(Omitted 1929-30.)



## 134. GROWTH OF THE WEST.—(C) Sem. 2. Cr. 3.

The settlement and growth of the various areas west of the Appalachians, and the influence of the new states upon national and international affairs.

Alternates with History 132 and Political Science 158.  
(Omitted 1929-30.)

## 152. GERMANY SINCE 1871.—(D) Sem. 2. Cr. 3.

Bismarck and the unification of Germany, William II; political, social, and economic development to 1914; the World War and the fall of the Hohenzollerns; the new constitution and republican Germany.

Alternates with History 122.

Bauer.

## 191. THE TEACHING OF HISTORY.—(D) Sem. 1. Cr. 3.

A teacher's course. Principles and methods of teaching History in high school.

Prerequisite: 15 hours of History.

Given in alternate years.

(Omitted 1929-30.)

## RELATED COURSES IN POLITICAL SCIENCE

Political Science 157.

Political Science 158.

## POLITICAL SCIENCE

Political Science is the study of government and politics. It deals with (1) the organization and activities of governments, American and foreign, (2) the theory and legal basis of political institutions, (3) public opinion and political parties, and (4) International Law and Relations. Political Science offers preparation for the following professional careers:

1. Directly: Consular and diplomatic service, city manager, public administration, civil service, research in public affairs, secretary of civic association.
2. Indirectly: Law, business, social service, journalism, teaching.

Major: The major in Political Science requires at least 24 credits, including Political Science 51 and 52.

Political Science 51 and 52; Economics 51 and 52; History 51 and 52 must be completed before any upper-division work in Political Science may be chosen.

Students majoring in History and Political Science should earn at least 36 credits, including History 51, 52, 101 and 103, and Political Science 51 and 52.

Minor: The minor consists of 12 credits, including Political Science 51 and 52.

Upper division students majoring in other departments may, with the consent of the adviser in Social Science, be allowed to register for upper-division courses without the introductory courses.



## COURSES IN POLITICAL SCIENCE

51. INTRODUCTION TO POLITICAL SCIENCE.—(B) Sem. 1. Cr. 3.  
Fundamental political conceptions: state, government; governmental organization and functions; political thought; political parties; international relations.  
Pinto.
52. AMERICAN GOVERNMENT.—(B) Sem. 2. Cr. 3.  
Federal and State. Structure and functions. Constitutional development. State administration. Political parties.  
Pinto.
55. COMPARATIVE GOVERNMENT.—(B) Sem. 1. Cr. 3.  
Comparative analysis of the British and Continental European types of government, including the new government set up since 1918.  
Alternates with Political Science 103 and 155.  
Pinto.
56. AMERICAN PARTIES.—(B) Sem. 2. Cr. 3.  
Study of the background of the American party system and party principles along with an analysis of present day organization and problems.  
Alternates with Political Science 152 and 154.  
Pinto.
101. CIVICS.—(C) Sem. 1. Cr. 3.  
Analysis of political institutions and problems of citizenship in the municipal, state, and international fields.  
Designed primarily for elementary teachers.  
(Given upon sufficient demand.)  
Bauer.
103. PRINCIPLES OF INTERNATIONAL LAW.—(C) Sem. 1. Cr. 3.  
Introduction to the principles of International Law, as exemplified in treaties, international practice, court decisions. Open to law students.  
Alternates with Political Science 55 and 155.  
(Omitted 1929-30.)
152. FOREIGN SERVICE.—(D) Sem. 2. Cr. 3.  
Study of the state department. Consular and diplomatic service. Designed primarily for students training for the foreign service.  
Alternates with Political Science 56 and 154.  
Pinto.
154. FAR EASTERN POLITICS.—(D) Sem. 2. Cr. 3.  
Study of the political problems of Japan, China, and of the Pacific in general, as well as of the policies of European nations and the United States.  
Alternates with Political Science 56 and 152.  
(Omitted 1929-30.)
155. INTERNATIONAL ORGANIZATION.—(D) Sem. 1. Cr. 3.  
Historical survey of international relations. Study of the organization and development of the League of Nations, down to the present time.  
Alternates with Political Science 55 and 103.  
Pinto.



157. FOREIGN POLICY OF THE UNITED STATES.—(D) Sem. 1. Cr. 3.  
Study of the development of the foreign policy of the United States from the colonial days to the present.  
Alternates with History 131 and 133.  
(Omitted 1929-30.)
158. UNITED STATES AND LATIN AMERICA.—(D) Sem. 2. Cr. 3.  
Political relations between the United States and the countries of Latin America. Special attention to the policy of the United States.  
Alternates with History 132 and 134.  
(Omitted 1929-30.)
191. THE TEACHING OF SOCIAL STUDIES.—(D) Sem. 1. Cr. 3.  
A teacher's course. Principles and objectives in the teaching of social studies in secondary schools.  
Prerequisite: 18 hours in Social Science.  
Given in alternate years.

Bauer.

## COURSES IN SOCIOLOGY

- 51-52. INTRODUCTION TO THE STUDY OF HUMAN SOCIETY.—(B) Yr. Each sem. Cr. 3.  
The general structure of society; the development and present-day issues of domestic, political, economic, cultural, and religious groups. The physical, social, and cultural factors affecting society; the nature and organization of society, involving group structure, group function, group objectives, and group mind; the process of society, including association and collective behavior, social struggle and adjustment, social forces, laws, and control.
102. SOCIAL PROBLEMS.—(C) Sem. 2. Cr. 3.  
A study of social inadequacy and social maladjustments; the problems created by dependents, defectives, and delinquents; intemperance; gambling; the social evil; crime; poverty; juvenile delinquency; unemployment, disablement, and other problems of social organization.

## THE SUMMER SESSION

1929

*First Five-week Session, June 17 to July 20.*

*Second Five-week Session, July 22 to August 24.*

1930

*First Five-week Session, June 16 to July 19.*

*Second Five-week Session, July 21 to August 23.*

*Length of Sessions.*—The Summer Session will consist of two five-week terms. School will be in session six days a week. Two five-week sessions are thus equivalent to one twelve-week session.

*For Whom Intended.*—The Summer Session serves particularly the following groups:

1. Regular university students who wish to secure additional credit, either to make up deficiencies or to shorten the time of their residence at the University.

2. Teachers of elementary schools and high schools who desire professional or non-professional instruction, either with or without relation to an academic degree.

3. Those desiring to complete the requirements for admission to one of the professional schools of this or another University.

4. Others desiring collegiate instruction during the summer.

*Admission.*—The general rules and regulations of the University relating to admission both to the freshman year and to advanced standing apply to the Summer Session.

*Special Students and Auditors.*—Adults who desire to pursue college work without reference to a degree, and those who desire merely to visit lecture courses in subjects in which they are especially interested and which they are not taking for credit, may register in the Summer Session respectively as special students or auditors and take such courses as may be open to them.

*Registration.*—The first day of each session is taken up with registration. An extra fee will be charged for late registration. All classes begin regular work the second day of each session. Registration may not be changed after the first week of the session except by approval of the Director of the Summer Session.

All Summer Session work is counted as work done in residence.

*Credits.*—The maximum credit for which students may regularly register is 12 semester hours for the ten-week session, or six semester hours for either five-week session. This program necessitates an intensive study of two or three subjects at a time.

Grades will be mailed to the students at the close of the Summer Session.

*Lectures and Concerts.*—As an added feature of the Summer Session a special program—lecture, recital, or concert—is offered on stated afternoons (excepting Friday and Saturday). An attempt is made to have



several lectures each summer devoted to one or two selected subjects of special interest.

*Excursions.*—The University organizes and conducts for the students of the Summer Session a series of Friday afternoon or Saturday excursions. The trips add much to both the educational and recreational possibilities of the Summer Session. They introduce students to Chicago's cultural treasures, to its manifold commercial activities, and to some of the beauty spots of the vicinity, such as the Dunes Park.

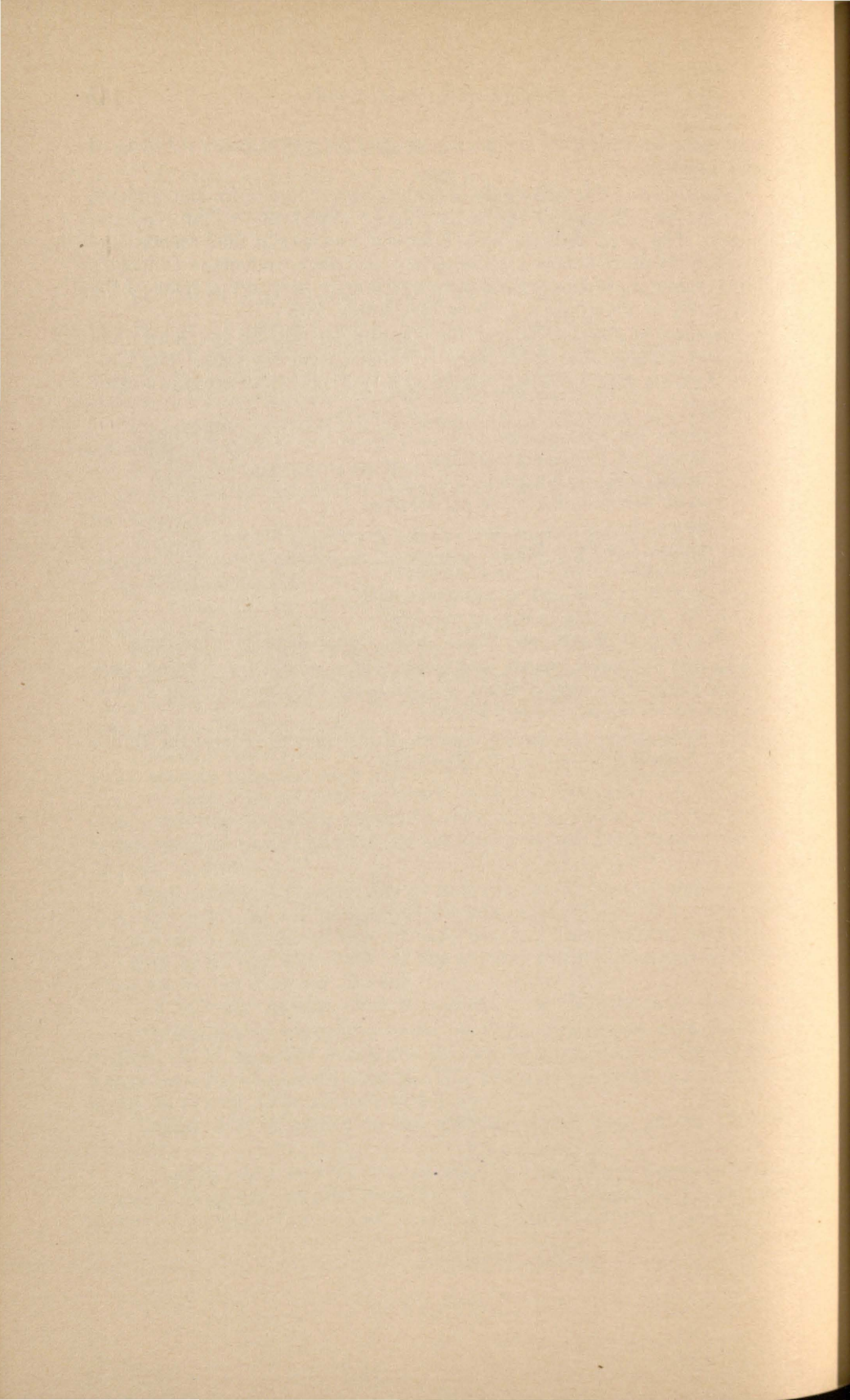
*Summary of Fees.*—The fees for the Summer Session are based upon the number of hours of credit for which the student registers. The University does not guarantee any refund to a students who withdraws after registration.

Tuition per credit hour.....	\$ 5.00
Tuition for four hours or less.....	20.00
Auditor's fee per course.....	15.00
Special lecture-concert fee per session.....	2.00
Library fee .....	2.00
Practice Teaching fee.....	25.00
Matriculation fee for new students.....	2.00
Laboratory (see course announcement).	
Field Trips (cost based on mileage).	

For fees in Music, see Music under Department of Fine Arts.

The cost of tuition, rooms, and meals varies greatly for different persons, but these three major items of a summer's expense during a five-week session should not exceed \$75.00.

For information concerning courses of instruction, request the Bulletin of the Summer Session of the Registrar.





PART V  
THE COLLEGE OF PHARMACY

*Accredited by and  
member of the American Association  
of Colleges of Pharmacy*

ACTING DEAN FULLER  
ASSISTANT PROFESSOR UHL  
ASSISTANT PROFESSOR WATSON  
ASSISTANT PROFESSOR THRUN  
MR. WATSON, MR. KAUFMANN

IMPORTANT: In harmony with the best tendency in education for pharmacy, the College of Pharmacy of Valparaiso University will begin in the fall of 1930 to offer only the four year course, leading to the degree, Bachelor of Science in Pharmacy. Meanwhile the College offers both, the three- and the four-year course.

The American Association of Colleges of Pharmacy has ruled that all member colleges shall turn to the four-year course by the fall of 1932.

## GENERAL INFORMATION

*Purpose.*—The College of Pharmacy was founded in 1893 and is an integral part of Valparaiso University. The College recognizes the necessity (1) of sound technical instruction in the fundamentals of those sciences with which its graduates have to do daily, (2) of thorough training along the intensely practical lines of their profession, and (3) of a broad cultural background of general knowledge, all of which, combined, should serve to give them high professional standing in their community.

*Membership.*—The College holds membership in the American Association of Colleges of Pharmacy. This association has done much to advance the interests of pharmaceutical education and requires its members to adhere to given standards for entrance, instruction, and graduation.

*Admission.*—The requirements for admission to the College of Pharmacy as a freshman, or to advanced standing, are the same as for the College of Liberal Arts of this University.

*Graduation.*—The degree of Pharmaceutical Chemist requires the satisfactory completion of 96 credits and 96 quality points of the three-year curriculum, the first and second years of which may have been taken in some other recognized College or School of Pharmacy.

The degree of Bachelor of Science in Pharmacy requires an additional 32 credits and 32 quality points above the three-year curriculum.

*Equipment.*—Eight laboratories in Science Hall and the Biology Building furnish ample facilities for the students to do their practical work. The main Chemical Laboratory and the Pharmacy Laboratory are each able to accommodate several hundred students. The Dispensing Laboratory is well equipped with modern prescription cabinets. The Materia Medica room is fitted with individual desks and lockers for pharmacognosy and contains display cabinets filled with samples of all the official crude drugs, also chemicals, and pharmaceutical apparatus. There are also special laboratories for Bacteriology, Botany, and Physiology. A good working library, which also has the latest publications in the pharmaceutical field, is maintained in connection with the main University library.

*Medicinal Plant Garden.*—The college also maintains a medicinal plant garden in which about fifty varieties of plants are raised. The material provided by the garden is used for comparison in the laboratories with the drugs as found on the market.

*Field Trips.*—The faculty annually arranges inspection trips to the pharmaceutical manufacturing establishments in such cities as Chicago, Indianapolis, and Detroit, so that the student may have some understanding of the preparation of chemicals and galenicals upon a commercial scale, pharmacy, materia medica, and related subjects.



## THE CURRICULA

The College offers the following curricula:

1. A three-year curriculum leading to the degree of Pharmaceutical Chemist. (PH.C.)
2. A four-year curriculum leading to the degree of Bachelor of Science in Pharmacy. (B.S. in Pharmacy.)

The three-year curriculum prepares the student for the duties of the retail pharmacist. It is arranged in conformity with the outline given in the Pharmaceutical Syllabus of the American Association of Colleges of Pharmacy. In every instance, however, there is offered and required a greater number of hours than is indicated in the outline. Graduates should also be qualified to do work in analytical chemistry and to fill positions in pharmaceutical laboratories, food laboratories, and the various manufacturing establishments.

The four-year curriculum adds cultural and commercial training to the work of pharmacy proper, that is, to the three-year (Ph. C.) curriculum. The student may also receive additional training in chemistry, pharmacy, materia-medica, and related subjects.

In this connection it should be noted that the college intends to adopt the four-year minimum course by 1930.

## THE THREE-YEAR CURRICULUM

(Leading to the Degree of Pharmaceutical Chemist)

## First Year

		<i>First Semester</i>		Class	Lab.	Cr.
Pharm.	1.	Pharmaceutical Technique .....	1	+	3	2
Pharm.	27.	Pharmaceutical Arithmetic .....	2	+	0	2
Botany	51.	General Botany .....	3	+	6	5
Chem.	51.	General Chemistry .....	3	+	3	4
English	1.	English Language and Composition.....	3	+	0	3
						<hr/> 16

## Second Semester

				Class	Lab.	Cr.
Pharm.	2.	Pharmaceutical Technique .....	2	+	3	3
Botany	101.	Plant Anatomy .....	2	+	4	4
Chem.	52.	Inorganic Chemistry .....	3	+	3	4
Chem.	62.	Qualitative Analysis .....	0	+	6	2
English	2.	English Language and Composition.....	3	+	0	3
						<hr/> 16

## Second Year

		<i>First Semester</i>		Class	Lab.	Cr.
Pharm.	51.	Pharmacognosy .....	2	+	0	2
Pharm.	75.	Operative Pharmacy .....	2	+	3	3
Chem.	101.	Organic Chemistry .....	3	+	6	5
Chem.	105.	Quantitative Analysis .....	1	+	6	3
Chem.	153.	Inorganic Pharmaceutical Chemistry.....	1	+	6	3
						<hr/> 16

		<i>Second Semester</i>	Class	Lab.	Cr.
Pharm. 52.	Pharmacognosy .....	2	+	0	2
Pharm. 76.	Operative Pharmacy .....	2	+	3	3
Botany 102.	Microscopic Examination of Fibers, Foods and Drugs	1	+	3	2
Zool. 54.	Elementary Physiology .....	2	+	3	3
Chem. 110.	Organic Pharmaceutical Chemistry.....	2	+	6	4
	Elective .....				2
					—
					16

**Third Year**

		<i>First Semester</i>	Class	Lab.	Cr.
Pharm. 101.	Pharmacognosy .....	3	+	0	3
Pharm. 105.	Biologic Assay .....	0	+	3	1
Pharm. 127.	Dispensing .....	1	+	3	2
Pharm. 131.	Pharmacopeial Assay .....	1	+	6	3
Botany 125.	Bacteriology .....	2	+	6	4
	Elective .....	3	+	0	3
					—
					16

		<i>Second Semester</i>	Class	Lab.	Cr.
Pharm. 128.	Advanced Dispensing .....	1	+	3	2
Pharm. 126.	U. S. P. and N. F.....	3	+	0	3
Pharm. 145.	History of Pharmacy.....	1	+	0	1
Pharm. 102.	Pharmacognosy .....	3	+	0	3
Chem. 140.	Bio-chemistry .....	3	+	3	4
	*Elective .....	3	+	0	3
					—
					16

**THE FOUR YEAR CURRICULUM**  
(Leading to the degree of Bachelor of Science in Pharmacy)

**First Year**

(Offered in 1929-30)

		<i>First Semester</i>	Class	Lab.	Cr.
Pharm. 1.	Pharmaceutical Technique .....	1	+	3	2
Pharm. 27.	Pharmaceutical Mathematics .....	2	+	0	2
English 1.	Freshman Composition .....	3	+	0	3
	Foreign Language .....	3	+	0	3
Surv. 5.	Freshman Lectures I.....	1	+	0	1
Chem. 51.	General Chemistry .....	3	+	3	4
P.E. 1.	Personal Hygiene .....	1	+	0	1
P.E. 01.	Physical Education .....	0	+	2	0
					—
					16

\*See footnote on page 144.



*Second Semester*

			Class	Lab.	Cr.
Pharm.	2.	Pharmaceutical Technique .....	1	+ 3	2
English	2.	Freshman Composition .....	3	+ 0	3
		Foreign Language .....	3	+ 0	3
Surv.	6.	Freshman Lectures II.....	1	+ 0	1
Chem.	52.	Inorganic Chemistry .....	3	+ 3	4
Chem.	62.	Qualitative Analysis .....	0	+ 6	2
P.E.	2.	Personal Hygiene .....	1	+ 0	1
P.E.	02.	Physical Education .....	0	+ 2	0
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					16

**Second Year**

(Given 1930-31)

*First Semester*

			Class	Lab.	Cr.
English	51.	Types of Literature.....	2	+ 0	2
English	53.	Fundamentals of Speaking.....	1	+ 0	1
		Foreign Language .....	3	+ 0	3
Botany	51.	General Botany .....	3	+ 6	5
Chem.	101.	Organic Chemistry .....	3	+ 6	5
					—
					16

*Second Semester*

			Class	Lab.	Cr.
English	52.	Types of Literature.....	3	+ 0	3
English	54.	Fundamentals of Speaking.....	1	+ 0	1
		Foreign Language .....	3	+ 0	3
Chem.	105.	Quantitative Analysis .....	1	+ 9	4
Chem.	110.	Organic Pharmaceutical Chemistry.....	1	+ 6	3
Botany	102.	Plant Anatomy .....	2	+ 3	3
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					16

**Third Year**

(Given 1931-32)

*First Semester*

			Class	Lab.	Cr.
Pharm.	51.	Pharmacognosy .....	2	+ 0	2
Pharm.	75.	Operative Pharmacy .....	2	+ 3	3
Phys.	51.	General Physics .....	3	+ 3	4
Botany	103.	Microscopical Examination of Fibers, Foods and Drugs .....	1	+ 3	2
		*Elective .....			3
					—
					16

\*See footnote on page 144.

<i>Second Semester</i>			Class	Lab.	Cr.
Pharm. 52.	Pharmacognosy .....		3	+ 0	3
Pharm. 76.	Operative Pharmacy .....		2	+ 3	3
Phys. 52.	General Physics .....		3	+ 3	4
Zool. 54.	Elementary Physiology .....		2	+ 3	3
	*Elective .....				3
					—
					16

**Fourth Year**  
(Given 1932-33)

<i>First Semester</i>			Class	Lab.	Cr.
Pharm. 101.	Pharmacognosy .....		3	+ 0	3
Pharm. 105.	Pharmacological Standardization .....		0	+ 3	1
Pharm. 127.	Advanced Dispensing .....		1	+ 3	2
Pharm. 131.	Pharmacopeial Assay .....		1	+ 6	3
Botany 125.	Bacteriology .....		2	+ 6	4
	*Elective .....				3
					—
					16

<i>Second Semester</i>			Class	Lab.	Cr.
Pharm. 102.	Pharmacognosy .....		3	+ 0	3
Pharm. 126.	U. S. P. and N. F. ....		3	+ 0	3
Pharm. 128.	Advanced Dispensing .....		1	+ 3	2
Chem. 140.*	Bio-chemistry .....		3	+ 6	5
	*Elective .....				3
					—
					16

## COURSES OF INSTRUCTION

### Pharmacy

#### 1. PHARMACEUTICAL TECHNIQUE.—(A) Sem. 1. 1+3, Cr. 2.

This course embraces a thorough and practical discussion of the apparatus and processes used in pharmacy. In the laboratory, which accompanies the course, many of the processes are applied with special emphasis as to technique.

*Laboratory fee \$6.00; deposit \$4.00.*

Uhl.

#### 2. PHARMACEUTICAL TECHNIQUE.—(A) Sem. 2. 2+3, Cr. 3.

A continuation of Pharmacy 1.

Prerequisite: Pharm. 1.

*Laboratory fee \$6.00; deposit \$4.00.*

Uhl.

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\*The language requirement, if still incomplete, must first be met. Otherwise minors in Business Management, Chemistry, Education, and Pharmacognosy may be chosen, as follows: B.M. 41, 42, 51, 52, 121, 122, 131, 132; Chem. 155, 160, 161; Ed. 51, 52, 113, 114, 118, 151; Psych. 51; Pharm. 110, 145, 151, 152, 176.



## 27. PHARMACEUTICAL ARITHMETIC.—(A) Sem. 1. 2+0, Cr. 2.

A course in arithmetic dealing with those problems peculiar to pharmacy as weights, measures, specific gravity, alligation, proportion, percentage, profits, and costs.

Watson.

## 75. OPERATIVE PHARMACY.—(B) Sem. 1. 2+3, Cr. 3.

In this course the more prominent galenical pharmaceutical preparations of each class, such as emulsions, pills, ointments, fluid extracts, etc., are made in the laboratory. The accompanying lectures are arranged to follow closely the laboratory processes. Methods of manufacture, preservation, and incompatibilities are considered.

Prerequisite: Pharmacy 2.

Laboratory fee \$6.00; deposit \$4.00.

Watson.

## 76. OPERATIVE PHARMACY.—(B) Sem. 2. 2+3, Cr. 3.

A continuation of Pharmacy 75.

Laboratory fee \$6.00; deposit \$4.00.

Watson.

## 126. U. S. P. &amp; N. F.—(C) Sem. 2. 3+0, Cr. 3.

This course, coming in the last semester of the senior year, is designed to give the student a thorough review of the chemistry, materia medica and pharmacy of all the drugs and preparations of the United States Pharmacopoeia and National Formulary.

Watson.

## 127. Dispensing.—(C) Sem. 1. 1+3, Cr. 2.

Incompatible prescriptions are studied in the laboratory and in class discussion. Methods of overcoming incompatibilities without defeating the purpose of the prescription are determined and proved by practice.

Prerequisite: Pharmacy 76.

Laboratory fee \$6.00; deposit \$4.00.

Watson.

## 128. ADVANCED DISPENSING.—(C) Sem. 2. 1+3, Cr. 2.

This course is a thorough survey of better dispensing practices with emphasis upon neatness, speed and accuracy. A large file of actual physicians' prescriptions are to be grouped and studied.

Watson.

## 131. PHARMACOPOEIAL ASSAY.—(C) Sem. 1. 1+6, Cr. 3.

The chemical and physical methods of assay directed by the U. S. P. are studied. The students are encouraged to select and develop problems of standardization.

Laboratory fee \$6.00; deposit \$4.00.

Watson.

## 145. HISTORY OF PHARMACY.—(C) Sem. 2. 1+0, Cr. 1.

History of the development of pharmacy.

Uhl.

## 176. COMMERCIAL PHARMACY.—(C) Sem. 2. 3+0, Cr. 3.

This course is designed to present the ethical and commercial problems of the modern pharmacists. A few of the general subjects consid-

## VALPARAISO UNIVERSITY

ered are: planning and arranging a pharmacy; a study of store location types; Federal regulations of commerce; cooperation with other professions; ethics.

Watson.

### Pharmacognosy

51. PHARMACOGNOSY.—(B) Sem. 1. 2+0, Cr. 2.

Sources and collection of crude vegetable and animal drugs. Field work in the pharmaceutical garden, supplemented by lectures and recitations.

Laboratory fee \$3.00.

Uhl.

52. PHARMACOGNOSY.—(B) Sem. 2. 2+0, Cr. 2.

A continuation of Pharmacognosy 51.

Prerequisite: Pharmacognosy 51.

Laboratory fee \$3.00.

Uhl.

101. PHARMACOGNOSY.—(C) Sem. 1. 3+0, Cr. 3.

A detailed study of the vegetable and animal drugs, including the pharmacological actions, dosage, uses, and toxicology of official and non-official drugs.

Prerequisite: Botany 51, Chemistry 51, Pharmacognosy 51.

Uhl.

102. PHARMACOGNOSY.—(C) Sem. 2. 3+0, Cr. 3.

A continuation of Pharmacognosy 101.

Prerequisite: Pharmacognosy 101.

Uhl.

105. PHARMACOLOGICAL STANDARDIZATION.—(C) Sem. 1. 0+3, Cr. 1.

A course in biological assaying, employing the official methods of the United State Pharmacopoeia.

Prerequisite: Pharmacognosy 52.

Laboratory fee \$3.00.

Uhl.

110. PHARMACOGNOSY.—(C) Sem. 1. 1+0, Cr. 1.

Habitats of crude vegetable and animal drugs, official in the United States Pharmacopoeia and National Formulary.

Prerequisite: Pharmacognosy 52.

Uhl.

160. PHARMACOGNOSY.—(D) Sem. 2. 1+0, Cr. 1.

A study of the medicinal plants that are being cultivated, methods of cultivation, harvesting, curing, and preparation for market. Field work with plants that can be successfully grown in the pharmaceutical garden.

Prerequisite: Pharmacognosy 52.

Uhl.

191-192. THESIS.—(D) Year. Each semester. 2+0, Cr. 2.

Work to be arranged upon consultation.

Uhl.

*For related courses in the College of Liberal Arts see Curricula on pages 141-144 and section of catalog devoted to College of Liberal Arts.*



PART VI  
THE SCHOOL OF LAW  
SEMI-CENTENNIAL YEAR

ACTING DEAN MORLAND  
ASSISTANT PROFESSOR BERRY  
ASSISTANT PROFESSOR LOEHR  
MR. GAMMON, MR. KUMNICK, MR. REES

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*Lecturers*  
JUDGES CRUMPACKER, LORING, RICHTER  
MR. MORAN

### PURPOSE

The pursuit of the study of law puts the student in closest touch with two fundamental requisites for building up a sturdy and noble character: Truth and Justice. The application of a law is for the protection of right and the suppression of wrong. A law that declares something right that is not right, or something wrong that is not wrong, lacks truth, and when applied, as such laws often are, in rigorous adherence to the letter it works injustice, and defeats its own purpose. "Justice," as George Eliot has said, "is like the Kingdom of God—it is not without us as a fact, it is within us as a great yearning." The inner sense of truth and justice must be the silent companion of the youth who sits poring over the digests of human laws. His true graduation in jurisprudence cannot be efficiency in legal quips and in raising technical points, but the ability to employ the legislation of men in the assertion of the principles of truth and justice, those attributes of God which were wrought into the very nature of man, when he was made in the image and after the likeness of God.

### GENERAL INFORMATION

*Historical Statement.*—The School of Law was organized in 1879 by the Honorable Mark L. DeMotte, who remained at its head for nearly 30 years. During that time hundreds of graduates became successful lawyers, and many were given political preferment or judicial honors, both in state and nation. Colonel DeMotte retired during the year 1907-1908 because of ill health. His place was taken by Milo J. Bowman who in turn saw large numbers of students graduate during a period of more than twenty years.

In 1926 the School of Law was moved from its old inadequate building to the main floor of Commerce Hall. At present three full-time instructors, three part-time instructors, and four lecturers comprise the faculty.

*Practice and Practice Court.*—The school maintains an adequate course in Practice Court, under the instruction of a man who has had many years of experience in the practice of Law.

*New Courses.*—The semi-centennial sees the enrichment of the curriculum through the addition thereto of eight new courses. They are: Taxation, Municipal Corporations, Administrative Law, Insurance, Conflict of Laws, Quasi-Contracts, Bankruptcy, and Practice Court.

*The Law Library.*—The school maintains a separate Law Library that complies with the best requirements.

The Library contains the official reports of the Supreme Court of the United States and of leading states and those of thirty-seven states up to the reporter system, the National Reporter System complete, all sets of general annotated decisions, full English Reprint, English reports and digests, the United States Code Annotated and earlier compilations of federal statutes, the United States Statutes at Large, state revised statutes or compilations and session laws, the American Digest System, state and special digests, citators, twelve legal periodicals, the standard



law encyclopedias, and a collection of state trials, legal histories, and treatises on law and jurisprudence.

*Curricula.*—The University offers in the School of Law a three-year curriculum, based on an entrance requirement of two years of college work and leading to the degree of Bachelor of Laws (LL.B.). The University also offers a six-year curriculum, comprising three years of college work and three years of work in law, leading to the degrees of Bachelor of Arts (A.B.) and Bachelor of Laws (LL.B.).

While a student may complete his law work in a minimum of five years above high school, i.e., two years of pre-law work and three years of law, the six-year curriculum is strongly recommended. The demands of modern legal study and professional service are severe. By providing himself with a liberal education before undertaking the study of law, the student brings to his professional work an increased breadth of view and maturity of mind which tend to make his legal study more fruitful and to enhance his success in the practice.

*Purpose and Method of Instruction.*—It is the design of the school to provide strictly professional training for the practice of law. The method of instruction is chiefly the study of decided cases, with collateral reading of statutes and other legal materials, accompanied by free discussion in the class room. The aim throughout is to train students in habits of legal reasoning and to assist the student in the acquisition of knowledge of a substantial part of the law which he is to practice. The instruction is not local in scope, but is designed to prepare students for the practice of law in any state.

The need for training in practice and procedure has been met by courses designed to give skill in the application of law in practice. Attention is therefore called to the courses called Use of Law Books, Criminal Procedure, Civil Procedure I, Code Pleading, Trial Practice, Evidence, and Practice Court.

#### ADMISSION

Applicants for admission as candidates for the degree of Bachelor of Laws must be able to satisfy the requirements for admission to a college of this University and have completed at least one-half of the work acceptable for a bachelor's degree as granted on the basis of four years of study.

The entrance requirements of this University, as set forth elsewhere in this bulletin, call for graduation from a four-year commissioned high school or other approved secondary school.

The requirement of one-half the work necessary for a four-year collegiate degree must be met by the completion of two years of study in a college of this University, or credit may be given, wholly or in part, upon a certificate from another college, university or normal school maintaining standards equivalent to those of the principal colleges or universities in this state.

*Advanced Standing.*—A student from a Law School which is a member of the Association of American Law Schools, or which is on the



approved list of the American Bar Association, who has attained in the school from which he is transferring the average required by that institution and whose scholastic standing meets the requirements of the University as to advanced standing, will ordinarily receive credit, not exceeding two years in amount, for the satisfactory completion of work done there if it is similar in character to that required here; provided that at the time he began the law courses for which he desires to receive credit he would have satisfied the entrance requirements of this School of Law. The right is reserved to refuse such credit, wholly or in part, save conditionally or upon examination, and credit given may be withdrawn for poor work. Admission with advanced standing will be refused where in the judgment of the faculty the schedule of studies pursued by the applicant in the school previously attended does not correspond sufficiently to the schedule of this school to make such admission advisable.

No credit will be given for work not done in residence at a law school.

*Students from other Colleges of this University.*—Subject to the regulations of the college in which they are registered and of the School of Law, junior and senior students in other colleges of the University may elect work in the School of Law.

#### REQUIREMENTS FOR GRADUATION

The work of the first two years is required. It consists of fourteen hours of work for each semester of the first year, and thirteen hours for each semester of the second year. Students of the third year are allowed to elect twelve hours of work for each semester of the senior year. Any senior whose scholastic record justifies it will be allowed to elect not to exceed three hours of extra work for each semester. In addition to the above seventy-eight hours of work the student must earn at least seventy-eight quality points.

During the senior year the student will be required to attend some twenty lectures on subjects of practical importance given by men who are active in the profession of the Law.

*Combined Arts and Law Curriculum.*—Students who have completed three years (90 semester hours) of work in the College of Liberal Arts and have received 90 quality points, will receive the degree of A.B. upon completing the first year in the School of Law, and the degree of LL.B. upon completing two additional years in the School of Law. By electing the combined course, students may obtain the two degrees in six years. Students who elect the combined curriculum are required to fulfill the college requirements applying to major and minor studies and prescribed work.

*Admission to the Bar.*—Graduates of the School of Law who are residents of Porter County and not less than twenty-one years of age may be admitted upon motion to the circuit Court of the county, the Indiana Appellate Court, the Supreme Court of the State, and the District Court of the United States. Members of the faculty do not move the admission of non-residents of Porter County or of students who do not graduate.



All rules and regulations of the University, except as herein noted, apply in general to the School of Law.

## CURRICULUM FOR LAW SCHOOL

## First Year

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
Contracts .....	3	Contracts .....	2
Torts .....	2	Torts .....	3
Civil Procedure .....	3	Criminal Procedure .....	1
Criminal Law .....	2	Property II .....	4
Property I .....	4	Agency .....	3
	—	Use of Books .....	1
Hours .....	14	Hours .....	—
		Hours .....	14

## Second Year

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
Quasi-Contracts .....	2	Equity .....	4
Municipal Corporations .....	2	Sales .....	3
Trusts .....	2	Persons .....	2
Bills and Notes .....	3	Code Pleading .....	2
Wills .....	2	Taxation .....	2
Damages .....	2		—
	—	Hours .....	13
Hours .....	13		

## Third Year

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
Conflict of Laws .....	3	Administrative Law .....	3
Constitutional Law .....	4	Practice Court .....	2
Evidence .....	3	Corporations .....	3
Trial Practice .....	2	Carriers .....	2
Insurance .....	2	Bankruptcy .....	2
	—	Legal Ethics .....	1
Hours .....	14	Hours .....	—
		Hours .....	13

## READING COURSES

Students whose scholastic standing warrants it, who desire to study some other course in substitution for one of the above may do so with the consent of the faculty and under the direction and assistance of a member thereof.

## COURSES IN LAW

## First Year Courses

101-102. CONTRACTS.—(C) Yr. Sem. 1, Cr. 3; Sem. 2, Cr. 2.

Agreement: Offers, their duration, termination, and modes of acceptance; consideration, promises under seal; contracts for the benefit of third persons; assignment; joint obligations; conditions expressed and implied; impossibility as an excuse; illegal contracts: restraint of trade, wagers and gaming contracts, contracts obstructing the administration of



justice; miscellaneous cases of illegal contracts; discharge of contracts by parol agreement, novation, release, accord and satisfaction, etc. Williston, *Cases on Contracts*, second edition.

Morland.

103-104. TORTS.—(C) Yr. Sem. 1, Cr. 2; Sem. 2, Cr. 3.

Trespass and case concepts in the law of torts; legal causation; specific torts, namely assault, battery, false imprisonment, trespass to land and to goods, conversion, deceit, defamation; liability for negligent conduct; absolute liability. Bohlen, *Cases on Torts*, second edition.

Loehr.

105. CRIMINAL LAW.—(C) Sem. 1. Cr. 2.

Nature and elements of crime; attempts; jurisdiction; specific crimes, particularly assault and battery, homicide, larceny and kindred crimes; burglary, arson, forgery, and perjury; circumstances modifying the offense; culpability; privilege; parties in crime; criminal conspiracy. Sayre, *Cases on Criminal Law*.

Berry.

106. CRIMINAL PROCEDURE.—(C) Sem. 2. Cr. 1.

Preparation for necessary steps to be taken in the prosecution and defence of criminal cases with attention to jurisdiction of crimes and criminals, constitutional rights of the accused, habeas corpus, search warrants, jury, grand jury, trial, judgment and punishment, parols and pardons. Mikell, *Cases on Criminal Procedure* (abridged edition).

Loehr.

107. PROPERTY I.—(C) Sem. 1. Cr. 4.

Personal Property: trespass and case concepts in the law of property; possessory interests in chattels; acquisition of title to chattels; fixtures; emblements. Real Property: general introduction; rights in another's land, particularly rents, profits a prendre, "natural" rights, easements, and covenants passing with an estate. Warren, *Cases on Property*.

Berry.

108. PROPERTY II (TITLES TO REAL PROPERTY).—(C) Sem. 2. Cr. 4.

Estates in land; original titles founded on possession, prescription, and accretion; conveyancing, including execution of deeds, description of the land conveyed, creation of easements by implication, recording, and title to estoppel. Aigler, *Cases on Titles to Real Property*.

Berry.

109. CIVIL PROCEDURE.—(C) Sem. 1. Cr. 3.

Preparation and necessary steps to be taken in the prosecution and defence of civil actions, with attention to jurisdiction, causes of action, parties, joinder, complaint, answer, demurrer, reply, motions, set-off and counter-claims, bills of particulars, instructions, amendment, construction of pleadings, proceedings before trial, during trial, after trial, judgments, new trial, appeals. McGill, *Cases on Civil Procedure*.

Loehr.

110. AGENCY.—(C) Sem. 2. Cr. 3.

The rights, duties and liabilities incident to the relation of principal and agent. Wambaugh, *Cases on Agency*, second edition.

Kumnick.



## 112. USE OF LAW BOOKS.—(C) Sem. 2. Cr. 1.

Training in legal research and the use of authorities, cases, indices, and digests. Cooley, Briefmaking, fifth edition.

Loehr.

Second and Third Year Courses

## 151. ADMINISTRATIVE LAW.—(D) Sem. 2. Cr. 3.

The law of public officers. Executive, legislative and judicial action; construction of grants of power; forms of administrative action; commissions; procedure; the record of administrative action; the province of the courts; conclusiveness and judicial review of administrative action. Remedies, including extraordinary legal remedies. Freund's Cases on Administrative Law, second edition.

Morland.

## 201. BANKRUPTCY.—(E) Sem. 2. Cr. 2.

Origin and history of statutes; jurisdiction; acts of bankruptcy; claims; preferences; fraudulent conveyances, procedure; the position of insolvent debtors; and the rights and remedies of creditors. Britten, Cases on Bankruptcy.

Loehr.

## 153. BILLS AND NOTES.—(D) Sem. 1. Cr. 3.

The principles governing bills of exchange, promissory notes, and other negotiable instruments at common law and under the Negotiable Instruments Law. Smith and Moore, Cases on Bills and Notes, second edition.

Berry.

## 202. CARRIERS.—(E) Sem. 2. Cr. 2.

A general consideration of bailment undertakings involving ordinary liabilities, and a more extended study of carriers, innkeepers, and other public service relations involving extraordinary liability. Goodard, Cases on Carriers, second edition.

Berry.

## 152. CODE PLEADING.—(D) Sem. 2. Cr. 2.

A study and history of procedure under modern codes, allegations in complaints, method of statement, prayer, demurrers, motions, answers, denials, equitable and legal defenses, replies. Hinton's Cases on Code Pleading, second edition.

Loehr.

## 205. CONFLICT OF LAWS.—(E) Sem. 1. Cr. 3.

Jurisdiction; effect of foreign judgments; jurisdiction in rem and in personam; remedies, rights of action, and procedure; application of re-statement. Beale's Shorter Selection, 1928.

Kumnick.

## 206. CONSTITUTIONAL LAW.—(E) Sem. 1. Cr. 4.

Relations between the federal government and the states; scope of legislative, judicial, and executive powers; interstate commerce; money; federal taxation; the government of dependencies; constitutional inhibitions in favor of life, liberty, and property; due process of law and equal protection of the laws. Long, Cases on Constitutional Law.

Morland.



## 208. CORPORATIONS.—(E) Sem. 2. Cr. 3.

Formation and distinguishing features; promotion; liability for torts and crimes; including offenses under the anti-trust acts; de facto corporations; ultra vires transactions; officers, stockholders, and creditors; corporate reorganization. Warren, *Cases on Corporations*, second edition.

Berry.

## 158. DAMAGES.—(D) Sem. 1. Cr. 2.

Compensatory damages; nominal, liquidated, and discretionary damages; measure of recovery in specific tort and contract actions. Case book to be announced.

Gammon.

## 160-161. EQUITY (Including Trusts).—(D) Sem. 2. Cr. 4.

Nature and scope of equity trusts, mortgages, injunctions; specific performance; reformation and rescission; recovery for benefits wrongfully retained. Clark, *Cases on Equity*.

Morland.

## 210. EVIDENCE.—(E) Sem. 1. Cr. 3.

Rules for the exclusion of evidence; function of court and jury; burden of proof; examination of witnesses. Hinton, *Cases on Evidence*, second edition.

Berry.

## 162. INSURANCE.—(D) Sem. 1. Cr. 2.

Nature and form of contract; insurable interest; concealment; representations and warranties; implied conditions; waiver and estoppel; beneficiaries; construction of common provisions. Woodruff's *Cases on Insurance*, second edition.

Loehr.

## 164. LEGAL ETHICS.—(D) Sem. 2. Cr. 1.

History and organization of the legal profession. Qualifications of lawyers; admission and discipline, duties and obligations. Costigan's *Cases on Legal Ethics*.

Rees.

## 165. MUNICIPAL CORPORATIONS.—(D) Sem. 1. Cr. 2.

Definition and nature; creation; incorporations; powers; liabilities; state control of. Macy, *Cases on Municipal Corporations*.

Morland.

## 166. PERSONS AND DOMESTIC RELATIONS.—(D) Sem. 2. Cr. 2.

The law of husband and wife, parent and child, infancy, marriage and divorce. Woodruff, *Cases on Persons and Domestic Relations*, third edition.

Berry.

## 212. PRACTICE COURT.—(E) Sem. 2. Cr. 2.

The actual trying of cases, beginning with the statement of facts, finding the law, drawing and filing pleadings, trial of the case, arguments, motion for new trial, appeal. Each student will both prosecute and defend in one or more criminal, divorce, and civil actions.

Trials will be both before the court and also by jury, with practice in selecting the jurors. The instructor will preside at all trials.

Loehr.



## 215. QUASI-CONTRACTS.—(E) Sem. 1. Cr. 2.

The obligations not based on contract or tort which are enforced by the courts, especially those imposed under equitable rules in cases of mistake, constraint, waiver of tort, and lack or failure of recompense for benefits received. Thurston's Cases on Quasi-Contracts.

Morland.

## 167. SALES.—(D) Sem. 2. Cr. 3.

Transfer of title to personal property; rights and remedies of buyer and seller; the Uniform Sales Act. Woodward, Cases on Sales, second edition.

Morland.

## 217. TAXATION.—(E) Sem. 2. Cr. 2.

Jurisdiction; classification of taxes; public purpose; assessment; exemptions; remedies for illegal taxation; excise and inheritance taxes; federal income and estate tax system. Beale, Cases on Taxation, revised edition.

Rees.

## 222. TRIAL PRACTICE.—(E) Sem. 1. Cr. 2.

Complaints, summons, service and return, appearance, pleas, continuance, jury, right to open and close, opening statement, judgment on pleading, demurrer, dismissal, nonsuit, directed verdict, instructing jury, arguments, special interrogatories, verdicts, judgment, motion for new trial and arrest of judgment, trial and finding of the court, levy, execution and sale. Hinton, Cases on Trial Practice, second edition.

Loehr.

## 223. TRUSTS.—(E) Sem. 1. Cr. 2.

Nature and elements of a trust; charitable trusts; resulting and constructive trusts; remedies of cestui que trust; duties of trustees. Clark, Cases on Equity and Assigned Work.

Morland.

## 159. WILLS.—(D) Sem. 1. Cr. 2.

Testamentary capacity, kinds of wills, execution, revocation, probate of wills, testate and intestate succession to real and personal property, executors and administrators, administration of decedents' estates, distribution, final report and discharge. Costigan's Cases on Wills.

Loehr.

### Required Lecture Courses for Seniors

Appellate Practice. ....	Mr. D. J. Moran
Juvenile Courts.....	Judge John C. Richter
Corporation Practice; general practice.....	Judge H. H. Loring
Federal Jurisdiction and Practice.....	Judge Grant Crumpacker

## REGISTER OF STUDENTS 1927-1928

## THE COLLEGE OF LIBERAL ARTS

## Seniors

Barry, Chas. Paul.....	White Haven, Pa.
Cléaveland, Bruce Francisco.....	Prophetstown, Ill.
Crist, Raymond W.....	Star City, Ind.
Dorney, Mildred Hatheway.....	Weyauwega, Wis.
Grubert, Anna Magdalene.....	Westfield, Mass.
Gulotta, Wilhelmina Schulke.....	Valparaiso, Ind.
Lowry, George King, Jr.....	Hickory Ridge, Ark.
Mallory, Donald D.....	Cuyahoga Falls, Ohio
Medsgen, Alton Theo.....	Scottdale, Pa.
Miller, Emma Carolyn .....	Plankinton, S. D.
Myers, George L.....	Arcadia, Ind.
McCarty, Amy .....	Cutler, Ind.
McCoy, May .....	Bainbridge, Ohio
Nuss, Carol Mathilda.....	Valparaiso, Ind.
Obermeyer, Lorena C.....	Kokomo, Ind.
Paukert, Catherine Margaret.....	Janesville, Minn.
Pautsch, Nina Anna.....	Juneau, Wis.
Peterson, Edwin Ansten.....	Lane, S. D.
Reid, Frank Grafton.....	Valparaiso, Ind.
Roof, John George.....	Amsterdam, Ohio
Shantz, Bernice Ethel.....	Mecosta, Mich.
Taggart, Karl L.....	Griffith, Ind.
Warburton, Stella Esther.....	Lebanon, Ind.

## Juniors

Bachmann, Arnold Henry.....	Blue Island, Ill.
Adams, Horton K.....	Port Jervis, N. Y.
Barger, Charlotte Marcella.....	Charlottesville, Va.
Bartholomew, Wm. Patton.....	Valparaiso, Ind.
Bole, Irene Verola.....	Columbus, Wis.
Brobst, John Lemuel.....	DuBois, Pa.
Burrus, Alma W.....	Valparaiso, Ind.
Butterfield, Dayle.....	Lane, S. D.
Couvé, Forrest.....	Kewanee, Ill.
Doran, James John.....	Stillwater, Minn.
Finger, Fred W.....	DuBois, Pa.
Gruenbaum, Lilian.....	Valparaiso, Ind.
Heinecke, Edna.....	Sheboygan, Wis.
John, So-Da.....	Hingwa City, China
Jones, John Alva.....	Valparaiso, Ind.
Kauth, William Matthew.....	Calumet, Mich.
Klein, Joseph.....	Valparaiso, Ind.
Kraushaar, Wilfred Paul.....	Warsaw, Ill.
Larson, Kenneth.....	Valparaiso, Ind.
Luebkert, Walter Frederick.....	Bay City, Mich.
Mennen, Elizabeth.....	Conover, N. C.



Meyer, Gilbert Ludwig	Elk Mound, Wis.
Meyer, Helen L.	Reedsburg, Wis.
Montie, Clara Ann	Olean, N. Y.
Mummert, Harold Byron	Valparaiso, Ind.
Paar, Norman	Warsaw, Ind.
Palm, Mildred E.	La Porte, Ind.
Pietsch, Orville F.	Kouts, Ind.
Purdy, Kenneth W.	Meeteetse, Wyo.
Reindel, Irene L.	Detroit, Mich.
Rosenbaum, Lydia A.	Valparaiso, Ind.
Ruge, Max G.	Valparaiso, Ind.
Salas, Antonio	Edificio Espana, Mexico, D. F.
Schiewe, Edwin	Oak Park, Ill.
Schultze, Wm. A.	Stanton, Nebr.
Scofield, Robert Eugene	Crisman, Ind.
Smith, Fay Charles	Auburn, N. Y.
Watkins, John Haden, Jr.	Monroe, La.
Worstell, Nellie Avis	Valparaiso, Ind.
Yotov, Boris	Rahovo, Bulgaria

## Sophomores

Armstrong, Albry Borts	Toledo, Ohio
Baade, Marian Christine	Logansport, Ind.
Bauer, Lois	Westville, Ind.
Baumann, Gretchen S.	Olean, N. Y.
Benien, Arleta Henrietta	Hamler, Ohio
Bloxon, Ralph Theodore	Kokomo, Ind.
Bostedt, Cyril J.	Gurnee, Ill.
Carlson, Alyce Linnea	Crisman, Ind.
Dahms, Hilbert William	Oconomowoc, Wis.
Demyan, Joseph	Kingston, Pa.
Dieke, Esther Caroline	La Grange, Ill.
Dobrowolsky, Peter	Gary, Ind.
Donnadieu, Albert	Nogales, Mexico
Dowler, Elma M.	Ft. Wayne, Ind.
Doyle, Gladys Mary	Cincinnati, Ohio
Fessel, Mildred Elizabeth	Defiance, Ohio
Fiting, Clarence John	Hemlock, Mich.
Friedrich, Thelma R.	Coldwater, Mich.
Geisz, William R.	Mt. Carroll, Ill.
Giessing, Melvin P.	Farmington, Mo.
Goodman, Ralph L.	Youngstown, Ohio
Graebner, Herbert C.	Bay City, Mich.
Griessel, Dorothea J.	Albany, N. Y.
Guild, Eva L.	Valparaiso, Ind.
Harmon, Carl J.	Warrensburg, Ill.
Harms, Louise	Cologne, Minn.
Heitman, William H.	Napoleon, Ohio
Hennig, Theo. A.	Oshkosh, Wis.
Hentschel, C. H.	Hobart, Ind.
Hesterman, Ferdinand	Archbold, Ohio



Hinz, Theodore	Grosse Pointe Park, Mich.
Hood, Montrose Gotham	Valparaiso, Ind.
Huebsch, Rudolph A.	West Henrietta, N. Y.
Hufnagel, Charles E.	Oquawka, Ill.
Hummert, Fred R.	St. Louis, Mo.
Hutelin, Arthur Paul	Houghton, Mich.
Kahrs, Edward C.	Suttons Bay, Mich.
Kenny, Jerry M.	Valparaiso, Ind.
Kesler, Agnes Harriet	Hammond, Ind.
Koerth, Luella F.	South Bend, Ind.
Kolb, Fred A.	Calumet City, Ill.
Krause, Elvira Rosaline	Fenton, Iowa
Kroencke, Helene Sophia	Valparaiso, Ind.
Krouse, Glen	Russell, Iowa
Krueger, Helene M.	Menomunie, Wis.
Kuns, Lucile	Valparaiso, Ind.
Lehman, Edith Katherine	St. Louis, Mo.
Lewis, Eleanor V.	Mt. Vernon, Ohio
MacDonald, Philip H.	West Warwick, R. I.
Massie, Edith Verner	Ironton, Ohio
Meredith, William Franklin	La Rose, Ill.
Moellering, Marie Helene	Ft. Wayne, Ind.
Meyer, Richard Henry	Holgate, Ohio
Mitchell, Clyde Edward	Kernan, Ill.
Mull, Lola Marriah	Pekin, Ind.
Newman, Elsie Mae	Trinidad, Colo.
Paris, Kenneth Monroe	Wisconsin Veterans Home, Ind.
Felkey, Gerald John	Howell, Mich.
Pope, Herman George	Wheeler, Ind.
Querl, Ellen Margaret	Webster Groves, Mo.
Pratt, Edward Wallace	Hanna, Ind.
Rahe, Ruth L.	Cleveland, Ohio
Reidenbach, Dorothy Emma	South Bend, Ind.
Reiser, Lillian Elizabeth	Napoleon, Ohio
Salzman, Minnie Mary	Neoga, Ill.
Schoknecht, Dorothy	Kalispell, Mont.
Schottin, Melvin	Buffalo, N. Y.
Schulte, Henry George	Cleveland, Ohio
Schulte, Mildred	Cleveland, Ohio
Seabold, Margaret M.	Ft. Wayne, Ind.
Simms, Russell Earl	Valparaiso, Ind.
Smith, Arthur Clarence	Bay City, Mich.
Spindler, John David	Valparaiso, Ind.
Stout, Josephine Alice	Hopedale, Ill.
Studebaker, Mildred E.	Whiting, Ind.
Thiem, Mildred	Chicago, Ill.
Trede, William George	Durant, Iowa
Uncapher, Elsie M.	Knox, Ind.
Ward, Genevieve D.	Bangor, Mich.
Weinlaeder, Esther Gertrude	Fort Lee, N. J.



Wendt, Otto A.....	Saginaw, Mich.
Whitehead, George Lee.....	Menomonee Falls, Wis.
Williams, Andrew.....	Detroit, Mich.
Wright, Ralph L.....	Edison, Ohio

## Freshmen

Ackerman, Edwin Robert.....	Mankato, Minn.
Agather, Verona L.....	Kalispell, Mont.
Ahrens, Martin.....	Dodge Center, Minn.
Angus, Evelyn.....	South Bend, Ind.
Baur, Walter William.....	Ft. Wayne, Ind.
Behnke, Helen Ann.....	Gary, Ind.
Bell, Clarke.....	Valparaiso, Ind.
Bell, John Charles.....	Valparaiso, Ind.
Bella, Olga Anna.....	East Port Chester, Conn.
Belz, Edward Hugo.....	Athens, Wis.
Binford, Llew. J.....	Massillon, Ohio
Boger, Mildred.....	Hinsdale, Ill.
Bowers, Omar Whitefield.....	Michigan City, Ind.
Brasser, Irving Eugene.....	Oostburg, Wis.
Carlson, Marvin Clarence.....	Valparaiso, Ind.
Carlson, Myrtle.....	Crisman, Ind.
Cordes, Hubert Martin.....	Kansas City, Mo.
Davidenas, Stephan.....	East Chicago, Ind.
Delove, Sidney Landon.....	Chicago, Ill.
Douthett, Harold Johnston.....	Highland, Ind.
Dowiat, Victor.....	Chicago, Ill.
Dress, Walter Carl.....	Richville, Mich.
Englund, Helen.....	Hobart, Ind.
Ferro, Aurelio.....	Bogota, Colombia, S. A.
Foringer, John William B.....	Franklin, Pa.
Fricke, Marie Meta.....	Defiance, Ohio
Friedrich, Maria Bertha.....	Hobart, Ind.
Fudenski, John Ira.....	Hanna, Ind.
Geller, Edward Louis.....	Ft. Wayne, Ind.
Gilbert, Gena Marian.....	Elwood, Ill.
Gitre, Frances.....	Niles, Mich.
Gother, Edgar Carl.....	North Milwaukee, Wis.
Greive, Edward Gerhard.....	Cleveland, Ohio
Guild, Emma.....	Valparaiso, Ind.
Habenicht, Knute Rusk.....	Chicago, Ill.
Hartmeister, Nathan John.....	Paullina, Iowa
Hawkins, Alva Owen.....	East Chicago, Ind.
Hawkinson, Ivan Stanley.....	Crisman, Ind.
Heinecke, Herman Otto.....	Sheboygan, Wis.
Helbig, Lawrence Arthur.....	Comstock, Wis.
Henline, John W.....	Ft. Wayne, Ind.
Holtman, Carl Emmitt.....	Chebanse, Ill.
Ibrahim, Abdulla.....	Harbin, China
Imboden, Arthur Ernest.....	Hickory Ridge, Ark.



Irk, Pearl Wilma.....	Michigan City, Ind.
Kahnert, Roland Leonard.....	St. Paul, Minn.
Kammholz, Alfred V.....	Rib Lake, Wis.
Klein, Dorothy Mae.....	Farmington, Mo.
Koenig, Clarence John.....	Wentzville, Mo.
Koenig, Louise Marie.....	Cleveland, Ohio
Korff, Valada Boehne.....	Evansville, Ind.
Kreinheder, Katherine Virginia.....	Detroit, Mich.
Kretowicz, Stanislaw.....	Youngstown, Ohio
Kroencke, Selma Barbara.....	Valparaiso, Ind.
Krumm, Alyce Louise.....	Chicago, Ill.
Kurtz, Lawrence Henry.....	Malinta, Ohio
Lamb, George Cornelius.....	East Chicago, Ind.
Larson, Ernest Peter.....	Mt. Vernon, N. Y.
Lazarczyk, Lawrence.....	Buffalo, N. Y.
Leasure, Herbert Thomas.....	Valparaiso, Ind.
Levine, Jack.....	Ferndale, N. Y.
Levine, S. Florence.....	Portland, Me.
Luecke, Esther.....	Milford, Ill.
Lundy, George Herbert.....	Roselle Park, N. J.
MacDonel, Lorne H.....	Somers, Mont.
Mayer, Albert Charles.....	Calumet City, Ill.
Medsger, Harlan C.....	Scottsdale, Pa.
Michael, W. Carl.....	Murphysboro, Ill.
Mickow, Burton Edward.....	Hamlet, Ind.
Mignerey, Clifford D.....	Torrington, Conn.
Meilander, Clarence Frank.....	West Dover, Ohio
Meister, Leo C.....	Valparaiso, Ind.
Monachino, Saint Reginald.....	New York, N. Y.
Moser, Herman R.....	Aurora, Ill.
Mueller, Clara Henrietta.....	Chicago, Ill.
Mullin, William B., Jr.....	Rochester, N. Y.
Never, John Henry.....	Sheboygan Falls, Wis.
Noel, Paul Norman.....	Vivian, W. Va.
Nolde, Adelaide Caroline.....	Richmond, Va.
Nuppnau, Wm. D.....	Valparaiso, Ind.
Nuss, Paul T.....	Valparaiso, Ind.
Pantz, Edward, Jr.....	New Rochelle, N. Y.
Parker, Evan L.....	Girard, Ohio
Parker, Martha.....	Valparaiso, Ind.
Pieper, James.....	St. Paul, Minn.
Pugh, Kathryn Mabel.....	Brinkley, Ark.
Ramage, Edward Davison.....	Bloomington, Ill.
Riedel, Carl.....	Ft. Wayne, Ind.
Robbins, Elizabeth.....	McCool, Ind.
Rodenbeck, Lorence H. W.....	Ft. Wayne, Ind.
Schepper, Waldo Phillip.....	Gary, Ind.
Schmult, Ernest.....	Detroit, Mich.
Schulson, Arthur Gale.....	South Haven, Mich.
Schultz, Reinhardt Henry.....	Lansing, Ill.



Seidel, Frederick G.....	Bay City, Mich.
Shaffer, Verl Robert.....	New Castle, Ind.
Shauer, Audrey.....	Valparaiso, Ind.
Sheley, Mary Ellen.....	Valparaiso, Ind.
Sheviak, Phyllis Gertrude.....	Wanatah, Ind.
Sloan, Ralph E.....	Bloomington, Ill.
Smith, Roy Byron.....	Fowlerville, Mich.
Steele, Paul Robert.....	Hebron, Ind.
Steelsmith, Helen Lucile.....	Fairmont, Minn.
Strzycke, Francis J.....	Chicago, Ill.
Stuenkel, Fred J.....	Hinsdale, Ill.
Thede, LeRoy L.....	Durant, Iowa
Townsend, Elmer Wallis.....	Great Falls, Mont.
Triplett, Leonard John.....	Alpena, S. D.
Tursman, Donald Lee.....	Valparaiso, Ind.
Weerts, Florence.....	Hinsdale, Ill.
Wiedenheft, Alvin Henry.....	Good Thunder, Minn.
Zapf, Mathilde Margaret.....	Chicago, Ill.
Zwick, Robert.....	Decatur, Ind.

#### Specials

Bartholomew, Dorothy.....	Valparaiso, Ind.
Becken, Thor. W.....	St. Paul, Minn.
Fencil, Claire Agnes.....	Valparaiso, Ind.
Gant, Lois Margaret.....	Valparaiso, Ind.
Hooven, Mrs. Herbert N.....	Valparaiso, Ind.
Lindwall, Judith V.....	Valparaiso, Ind.
Lloyd, Mrs. Ida M.....	Valparaiso, Ind.
Philleau, Edith Whiting.....	Valparaiso, Ind.
Ruess, Stella Knight.....	Valparaiso, Ind.
Sayers, Ella.....	Valparaiso, Ind.
Schwerman, Hanna C.....	Libertyville, Ill.
Simms, Sada Gulbransen.....	Valparaiso, Ind.
Sowers, Hazel D.....	Atlanta, Ind.
Spooner, Alvah Leonard.....	Valparaiso, Ind.
Stein, George Raymond.....	South Haven, Mich.
Sullivan, Price B.....	Wisconsin Rapids, Wis.
Webb, Agnes G.....	Valparaiso, Ind.

### THE SCHOOL OF LAW

#### Third Year

Benson, John.....	East Chicago, Ind.
Brown, Merville Lee.....	Princeton, Ill.
Clark, Howard D.....	Valparaiso, Ind.
Costello, Ettore P.....	Hartford, Conn.
Cunningham, Floyd R.....	Viroqua, Wis.
Dorney, William M.....	Allentown, Pa.
Florence, Reynolds Gardner.....	Asheville, N. C.
Koritz, Alford Archie.....	Thawville, Ill.
McGarvey, James Joseph.....	Valparaiso, Ind.



Rossiter, Edward Leo.....	Milford, N. H.
White, Kenneth Bain.....	Rochester, N. Y.
Woodward, Nicholas Thomas.....	St. Charles, Mich.

### Second Year

Aichenbaum, Phil.....	Brooklyn, N. Y.
Arnold, Alvin M.....	Elkhart, Ind.
Blaese, Robert M.....	Valparaiso, Ind.
Brenton, Fannie Lyman.....	Petersburg, Ind.
Buitrago, Emilio A. E.....	San Lorenzo, P. R.
Cooper, Errett Reed.....	La Porte, Ind.
Cudlovich, Joseph Geo.....	Indiana Harbor, Ind.
DiCerbo, John A.....	Olean, N. Y.
Dumas, F. Edward.....	Fowler, Ind.
Freeze, Ralph Lee.....	Valparaiso, Ind.
Gesell, Harold J. E.....	Elma, Iowa
Granger, Forest Lee.....	Hammond, Ind.
Hebberd, Raymond Conklin.....	Chicago, Ill
Hector, Harold Christian.....	Hammond, Ind.
Kerr, Laird I.....	Big Prairie, Ohio
McCallum, Woodburn Alexander.....	Valparaiso, Ind.
Pfeiffer, Harry August.....	Pensacola, Fla.
Rademaker, John, Jr.....	Manistee, Mich.
Rainey, Dale.....	King City, Mo.
Reiser, Luther M.....	Napoleon, Ohio
Schuette, Carl John.....	Cleveland, Ohio
Scott, George.....	Chicago, Ill.
Van Buskirk, Charles J.....	Valparaiso, Ind.
Zimmerman, Englebert.....	Valparaiso, Ind.

### First Year

Anderson, Clarence Holland.....	Lime Springs, Iowa
Berbling, Joe Charles.....	Cairo, Ill.
Brady, Rowell Clifford.....	Conover, N. C.

### Specials

Koenemann, Elmer Louis.....	Hoagland, Ind.
Sulonen, Gust E.....	Nashwauk, Minn.

## THE COLLEGE OF PHARMACY

### Juniors

Apanasewicz, Harry.....	Kenosha, Wis.
Balciunas, Bernard Joseph.....	Rockford, Ill.
Bankowski, Edmund.....	Indiana Harbor, Ind.
Boleman, H. B.....	Rockville, Ind.
Cheskis, Isaac.....	Chicago, Ill.
Dettmann, Carl Henry.....	La Porte, Ind.
Dodge, Austin Anderson.....	Edgerton, Wis.
Eisenberg, Harry H.....	Chicago, Ill.
Filmanowicz, Stanley V. F.....	Chicago, Ill.
Irizarry, Marcos A.....	Lajas, P. R.



Maciejewski, Joseph.....	Chicago, Ill.
Madura, John Joseph.....	Chicago, Ill.
Nordstrom, Henry John Wm.....	Chesterton, Ind.
Pearson, Stanley John.....	Chicago, Ill.
Petrenas, Elizabeth.....	Chicago, Ill.
Plachecki, Leonard Ralph.....	Chicago, Ill.
Saposnik, Haime.....	Chicago, Ill.
Zuraitis, Charles.....	Chicago, Ill.

## Sophomores

Bacos, James John.....	Chicago, Ill.
Berger, Hilbert Arthur.....	Chicago, Ill.
Blasier, Blendon O.....	Michigan City, Ind.
Blumenfeld, Jack Carl.....	Indiana Harbor, Ind.
Caffarello, Joseph Michal.....	Chicago, Ill.
Carlson, Roger S.....	Chesterton, Ind.
Churlis, Matthew.....	Chicago, Ill.
Filmanowicz, Edward Vincent.....	Chicago, Ill.
Grbac, Kreso.....	Chicago, Ill.
Hall, Vern S.....	Libertyville, Ill.
Kutzner, Albert Leland.....	Sandwich, Ill.
Liberson, S.....	Chicago, Ill.
Merz, Earl.....	Chicago, Ill.
Netz, Wallace L.....	Libertyville, Ill.
Noval, Morton.....	Chicago, Ill.
Padulo, John Thomas.....	Chicago, Ill.
Palermo, Amiel.....	Chicago, Ill.
Pencek, Joseph Sebastian.....	Chicago, Ill.
Roeder, Leonard M.....	Dwight, Ill.
Roeder, Logan C.....	Dwight, Ill.
Rosenthal, Arthur Donald.....	Chicago, Ill.
Rosenthal, Irwin.....	Chicago, Ill.
Rydzenski, Christina Blondine.....	Chicago, Ill.
Shlensky, Reuben.....	Chicago Heights, Ill.
Simon, Louis Jay.....	Chicago, Ill.
Spalding, Carl A.....	Wanda, Minn.
Toepel, Mark Fred.....	Desplaines, Ill.
Tomasek, George.....	Chicago, Ill.
Tomporowski, Jerome Frank.....	Cicero, Ill.
Uhlenhop, Henry L.....	Chicago, Ill.
Uhlir, Eleanor Martha.....	Walnut, Nebr.
Wieczorek, M. J.....	Chicago, Ill.

## Freshmen

Glienke, Janet C. E.....	Milwaukee, Wis.
Grabarski, Arthur.....	Chicago, Ill.
Hrycyna, Walter John.....	Chicago, Ill.
Iliff, Thomas Clifford.....	La Rose, Ill.
Jacobs, Mitchell.....	Chicago, Ill.
Kirincich, Nicholas J.....	Chicago, Ill.

Kominakis, John.....	Chicago, Ill.
Krop, Walter.....	Chicago, Ill.
Mendralski, Jeannette.....	Chicago, Ill.
Mogensen, Harry Charles.....	Chicago, Ill.
Murray, Carl H.....	Ft. Wayne, Ind.
Never, John Henry.....	Sheboygan Falls, Wis.
Pawelko, Ray W.....	Chicago, Ill.
Rosen, Frank.....	Chicago, Ill.
Schupack, Norman.....	Chicago, Ill.
Spranza, John.....	Chicago, Ill.
Striegel, Clifford.....	St. Anne, Ill.
Stypinski, Stanley Stephen.....	Chicago, Ill.
Ulitzky, Henry.....	Chicago, Ill.

## SUMMARY OF ATTENDANCE FOR THE YEAR 1927-1928

## The College of Liberal Arts

	Men	Women	Total
Seniors .....	10	13	23
Juniors .....	28	12	40
Sophomores .....	44	40	84
Freshmen .....	81	32	113
Specials .....	4	13	17
Total .....	167	110	277

## The School of Law

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Second Year .....	25	..	25
First Year .....	3	..	3
Specials .....	2	..	2
Total .....	41	..	41

## The College of Pharmacy

Seniors .....	..	..	..
Juniors .....	17	1	18
Sophomores .....	30	2	32
Freshmen .....	17	2	19
Specials .....	..	..	..
Total .....	64	5	69
Grand Total (Gross Enrollment).....	272	115	387
Deduct Duplicates .....	1	..	1
Grand Total (Net Enrollment).....	271	115	386



## GEOGRAPHICAL DISTRIBUTION OF STUDENTS

School Year 1927-1928		Insular and Non-Contiguous Territories	
United States—Continental			
State	No. of Students	Country	No. of Students
Indiana .....	124	Porto Rico .....	2
Illinois .....	95		—
Ohio .....	29	Total .....	2
Michigan .....	25	<b>Foreign Countries</b>	
Wisconsin .....	23	Bulgaria .....	1
New York .....	16	China .....	2
Minnesota .....	12	Colombia, S. A. ....	1
Missouri .....	8	Mexico .....	2
Iowa .....	7		—
Pennsylvania .....	7	Total .....	6
Montana .....	4	<b>Recapitulation</b>	
South Dakota .....	4	United States—Continental...	378
Arkansas .....	3	U. S. Insular and Non-Contiguous Territories.....	2
Connecticut .....	3	Foreign Countries .....	6
North Carolina .....	3		—
Nebraska .....	2	Total .....	386
New Jersey .....	2		—
Virginia .....	2	Number of States Represented.	27
Colorado .....	1	Number of Insular and Non-Contiguous Territories.....	1
Florida .....	1	Foreign Countries Represented	4
Louisiana .....	1		
Maine .....	1		
Massachusetts .....	1		
New Hampshire .....	1		
Rhode Island .....	1		
West Virginia .....	1		
Wyoming .....	1		
Total .....	378		

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